

# David Dean

## List of Publications by Year in descending order

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135  
papers

6,014  
citations

66343

42  
h-index

76900

74  
g-index

137  
all docs

137  
docs citations

137  
times ranked

6714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of stereolithography to manufacture critical-sized 3D biodegradable scaffolds for bone ingrowth. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64B, 65-69.	3.1	451
2	Evaluating 3D-Printed Biomaterials as Scaffolds for Vascularized Bone Tissue Engineering. <i>Advanced Materials</i> , 2015, 27, 138-144.	21.0	241
3	Soft and hard tissue response to photocrosslinked poly(propylene fumarate) scaffolds in a rabbit model. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 547-556.	3.1	230
4	Metals for bone implants. Part 1. Powder metallurgy and implant rendering. <i>Acta Biomaterialia</i> , 2014, 10, 4058-4070.	8.3	215
5	Stereolithographic Bone Scaffold Design Parameters: Osteogenic Differentiation and Signal Expression. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 523-539.	4.8	209
6	Photocrosslinking characteristics and mechanical properties of diethyl fumarate/poly(propylene fumarate) scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 547-556.	11.4	188
7	On the phylogenetic position of the pre-Neandertal specimen from Reilingen, Germany. <i>Journal of Human Evolution</i> , 1998, 34, 485-508.	2.6	162
8	Synthesis and properties of photocross-linked poly(propylene fumarate) scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 673-687.	3.5	162
9	Photoinitiated Polymerization of Biomaterials. <i>Annual Review of Materials Research</i> , 2001, 31, 171-181.	9.3	147
10	The influence of stereolithographic scaffold architecture and composition on osteogenic signal expression with rat bone marrow stromal cells. <i>Biomaterials</i> , 2011, 32, 3750-3763.	11.4	133
11	Evaluation of the In Vitro Cytotoxicity of Cross-Linked Biomaterials. <i>Biomacromolecules</i> , 2013, 14, 1321-1329.	5.4	132
12	Effect of Initial Cell Seeding Density on Early Osteogenic Signal Expression of Rat Bone Marrow Stromal Cells Cultured on Cross-Linked Poly(propylene fumarate) Disks. <i>Biomacromolecules</i> , 2009, 10, 1810-1817.	5.4	129
13	Early osteogenic signal expression of rat bone marrow stromal cells is influenced by both hydroxyapatite nanoparticle content and initial cell seeding density in biodegradable nanocomposite scaffolds. <i>Acta Biomaterialia</i> , 2011, 7, 1249-1264.	8.3	115
14	Metals for bone implants: safety, design, and efficacy. <i>Biomanufacturing Reviews</i> , 2016, 1, 1.	4.8	112
15	Computer Aided Design of Large-Format Prefabricated Cranial Plates. <i>Journal of Craniofacial Surgery</i> , 2003, 14, 819-832.	0.7	111
16	Continuous digital light processing (cDLP): Highly accurate additive manufacturing of tissue engineered bone scaffolds. <i>Virtual and Physical Prototyping</i> , 2012, 7, 13-24.	10.4	108
17	Bone formation in transforming growth factor $\beta$ -1-coated porous poly(propylene fumarate) scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 241-251.	3.1	106
18	A three-dimensional fractal analysis method for quantifying white matter structure in human brain. <i>Journal of Neuroscience Methods</i> , 2006, 150, 242-253.	2.5	95

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19	3D Printing of Poly(propylene fumarate) Oligomers: Evaluation of Resin Viscosity, Printing Characteristics and Mechanical Properties. <i>Biomacromolecules</i> , 2019, 20, 1699-1708.	5.4	93
20	The Recent Revolution in the Design and Manufacture of Cranial Implants. <i>Neurosurgery</i> , 2015, 77, 814-824.	1.1	89
21	Quantifying degeneration of white matter in normal aging using fractal dimension. <i>Neurobiology of Aging</i> , 2007, 28, 1543-1555.	3.1	88
22	Resorbable bone fixation alloys, forming, and post-fabrication treatments. <i>Materials Science and Engineering C</i> , 2017, 70, 870-888.	7.3	85
23	Vocal grooming: Man the schmoozer. <i>Behavioral and Brain Sciences</i> , 1993, 16, 699-700.	0.7	79
24	Photoinitiated Cross-Linking of the Biodegradable Polyester Poly(propylene fumarate). Part II. In Vitro Degradation. <i>Biomacromolecules</i> , 2003, 4, 1335-1342.	5.4	77
25	Effect of prevascularization on inÂvivo vascularization of poly(propylene fumarate)/fibrin scaffolds. <i>Biomaterials</i> , 2016, 77, 255-266.	11.4	75
26	Process development and characterization of additively manufactured nickelâ€“titanium shape memory parts. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2653-2660.	2.5	74
27	Poly(propylene fumarate)-based materials: Synthesis, functionalization, properties, device fabrication and biomedical applications. <i>Biomaterials</i> , 2019, 208, 45-71.	11.4	73
28	Photoinitiated Cross-Linking of the Biodegradable Polyester Poly(propylene fumarate). Part I. Determination of Network Structure. <i>Biomacromolecules</i> , 2003, 4, 1327-1334.	5.4	72
29	The Current Role of Three-Dimensional Printing in Plastic Surgery. <i>Plastic and Reconstructive Surgery</i> , 2016, 137, 1045-1055.	1.4	72
30	Microstructural, mechanical and corrosion characteristics of heat-treated Mg-1.2Zn-0.5Ca (wt%) alloy for use as resorbable bone fixation material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 203-212.	3.1	70
31	3D printing of resorbable poly(propylene fumarate) tissue engineering scaffolds. <i>MRS Bulletin</i> , 2015, 40, 119-126.	3.5	69
32	Hydrogels that allow and facilitate bone repair, remodeling, and regeneration. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7818-7830.	5.8	69
33	Synthesis and Biological Evaluation of Well-Defined Poly(propylene fumarate) Oligomers and Their Use in 3D Printed Scaffolds. <i>Biomacromolecules</i> , 2016, 17, 690-697.	5.4	69
34	The potential impact of bone tissue engineering in the clinic. <i>Regenerative Medicine</i> , 2016, 11, 571-587.	1.7	65
35	Achieving biocompatible stiffness in NiTi through additive manufacturing. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2661-2671.	2.5	58
36	Finite Element Simulation and Additive Manufacturing of Stiffness-Matched NiTi Fixation Hardware for Mandibular Reconstruction Surgery. <i>Bioengineering</i> , 2016, 3, 36.	3.5	55

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37	Effect of Chemical and Physical Properties on the In Vitro Degradation of 3D Printed High Resolution Poly(propylene fumarate) Scaffolds. <i>Biomacromolecules</i> , 2017, 18, 1419-1425.	5.4	55
38	Validating continuous digital light processing (cDLP) additive manufacturing accuracy and tissue engineering utility of a dye-initiator package. <i>Biofabrication</i> , 2014, 6, 015003.	7.1	53
39	Effect of biomaterial properties on bone healing in a rabbit tooth extraction socket model. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 428-438.	3.1	52
40	Second gorilla or third chimp?. <i>Nature</i> , 1992, 359, 676-677.	27.8	49
41	Three Dimensional Printing of Stiffness-tuned, Nitinol Skeletal Fixation Hardware with an Example of Mandibular Segmental Defect Repair. <i>Procedia CIRP</i> , 2016, 49, 45-50.	1.9	48
42	Optimization of photocrosslinkable resin components and 3D printing process parameters. <i>Acta Biomaterialia</i> , 2019, 97, 154-161.	8.3	43
43	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. <i>Biofabrication</i> , 2020, 12, 035023.	7.1	43
44	Poly(propylene fumarate) and Poly(DL-lactic-co-glycolic acid) as Scaffold Materials for Solid and Foam-Coated Composite Tissue-Engineered Constructs for Cranial Reconstruction. <i>Tissue Engineering</i> , 2003, 9, 495-504.	4.6	42
45	Mapping the Mechanome of Live Stem Cells Using a Novel Method to Measure Local Strain Fields In Situ at the Fluid-Cell Interface. <i>PLoS ONE</i> , 2012, 7, e43601.	2.5	42
46	Digital micromirror device (DMD)-based 3D printing of poly(propylene fumarate) scaffolds. <i>Materials Science and Engineering C</i> , 2016, 61, 301-311.	7.3	42
47	A Three-Dimensional Morphometric Study of Craniofacial Shape in Schizophrenia. <i>American Journal of Psychiatry</i> , 2005, 162, 606-608.	7.2	41
48	Mechanical modulation of nascent stem cell lineage commitment in tissue engineering scaffolds. <i>Biomaterials</i> , 2013, 34, 5766-5775.	11.4	41
49	Design and mechanical characterization of solid and highly porous 3D printed poly(propylene) Tj ETQq1 1 0.784314 ggBT / Overlock 10	4.8	39
50	A Three-Dimensional Smooth Surface Analysis of Untreated CrozonÉ¼s Syndrome in the Adult. <i>Journal of Craniofacial Surgery</i> , 1995, 6, 444-453.	0.7	37
51	Multiple initiators and dyes for continuous Digital Light Processing (cDLP) additive manufacture of resorbable bone tissue engineering scaffolds. <i>Virtual and Physical Prototyping</i> , 2014, 9, 3-9.	10.4	36
52	Three-Dimensional Boltonâ€œBrush Growth Study Landmark Data: Ontogeny and Sexual Dimorphism of the Bolton Standards Cohort. <i>Cleft Palate-Craniofacial Journal</i> , 2000, 37, 145-156.	0.9	34
53	Effect of Changing Patient Position from Supine to Prone on the Accuracy of a Brown-Roberts-Wells Stereotactic Head Frame System. <i>Neurosurgery</i> , 2003, 52, 610-618.	1.1	33
54	Pc 4 photodynamic therapy of U87-derived human glioma in the nude rat. <i>Lasers in Surgery and Medicine</i> , 2005, 36, 383-389.	2.1	33

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55	Three-dimensional magnetic resonance-based morphometrics and ventricular dysmorphology in schizophrenia. <i>Biological Psychiatry</i> , 1999, 45, 62-67.	1.3	31
56	The brush inquiry: An opportunity to investigate health outcomes in a well-characterized cohort. , 2000, 12, 1-9.		31
57	Effect of Transforming Growth Factor $\beta$ 2 on Marrow-Infused Foam Poly(Propylene Fumarate) Tissue-Engineered Constructs for the Repair of Critical-Size Cranial Defects in Rabbits. <i>Tissue Engineering</i> , 2005, 11, 923-939.	4.6	31
58	Photopolymerizable Resins for 3D-Printing Solid-Cured Tissue Engineered Implants. <i>Current Drug Targets</i> , 2019, 20, 823-838.	2.1	30
59	The Current Role of Three-Dimensional (3D) Printing in Plastic Surgery. <i>Plastic and Reconstructive Surgery</i> , 2016, , 1.	1.4	29
60	Design, Modeling, Additive Manufacturing, and Polishing of Stiffness-Modulated Porous Nitinol Bone Fixation Plates Followed by Thermomechanical and Composition Analysis. <i>Metals</i> , 2020, 10, 151.	2.3	29
61	Homo at the gates of Europe. <i>Nature</i> , 1995, 373, 472-473.	27.8	28
62	Osseointegration of Preformed Polymethylmethacrylate Craniofacial Prostheses Coated with Bone Marrow-Impregnated Poly (DL-Lactic-co-Glycolic Acid) Foam. <i>Plastic and Reconstructive Surgery</i> , 1999, 104, 705-712.	1.4	28
63	In Situ Spatiotemporal Mapping of Flow Fields around Seeded Stem Cells at the Subcellular Length Scale. <i>PLoS ONE</i> , 2010, 5, e12796.	2.5	28
64	Optimization of Gamma Knife treatment planning via guided evolutionary simulated annealing. <i>Medical Physics</i> , 2001, 28, 1746-1752.	3.0	27
65	In vitro degradation and fracture toughness of multilayered porous poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 159-164.	3.1	27
66	Plug pattern optimization for gamma knife radiosurgery treatment planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 420-427.	0.8	26
67	Reconstruction of human fossils. <i>IEEE Computer Graphics and Applications</i> , 1995, 15, 12-15.	1.2	24
68	Validation of object-induced MR distortion correction for frameless stereotactic neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 810-816.	8.9	24
69	Modification of Poly(propylene fumarate)â€“Bioglass Composites with Peptide Conjugates to Enhance Bioactivity. <i>Biomacromolecules</i> , 2017, 18, 3168-3177.	5.4	24
70	Three-Dimensional Boltonâ€“Brush Growth Study Landmark Data: Ontogeny and Sexual Dimorphism of the Bolton Standards Cohort. <i>Cleft Palate-Craniofacial Journal</i> , 2000, 37, 145-156.	0.9	23
71	Metallic Fixation of Mandibular Segmental Defects: Graft Immobilization and Orofacial Functional Maintenance. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2016, 4, e858.	0.6	23
72	Three dimensional MR-based morphometric comparison of schizophrenic and normal cerebral ventricles. <i>Lecture Notes in Computer Science</i> , 1996, , 361-372.	1.3	20

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73	Average African American Three-Dimensional Computed Tomography Skull Images. Journal of Craniofacial Surgery, 1998, 9, 348-358.	0.7	19
74	Growth Factor Dose Tuning for Bone Progenitor Cell Proliferation and Differentiation on Resorbable Poly(propylene fumarate) Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 904-913.	2.1	19
75	Ceramic coating for delayed degradation of Mg-1.2Zn-0.5Ca-0.5Mn bone fixation and instrumentation. Thin Solid Films, 2019, 687, 137456.	1.8	19
76	Quantitative and qualitative comparison of volumetric and surface rendering techniques. IEEE Transactions on Nuclear Science, 1991, 38, 659-662.	2.0	17
77	Osseointegration of Preformed Polymethylmethacrylate Craniofacial Prostheses Coated with Bone Marrow-Impregnated Poly (DL-Lactic-co-Glycolic Acid) Foam. Plastic and Reconstructive Surgery, 1999, 104, 705-712.	1.4	17
78	Fixation Release and the Bone Bandaid: A New Bone Fixation Device Paradigm. Bioengineering, 2017, 4, 5.	3.5	17
79	Modulating Bioglass Concentration in 3D Printed Poly(propylene fumarate) Scaffolds for Post-Printing Functionalization with Bioactive Functional Groups. Biomacromolecules, 2019, 20, 4345-4352.	5.4	17
80	Photocrosslinking-based 3D printing of unsaturated polyesters from isosorbide: A new material for resorbable medical devices. Bioprinting, 2020, 18, e00062.	5.8	17
81	Chemical Polishing of Additively Manufactured, Porous, Nickel-Titanium Skeletal Fixation Plates. 3D Printing and Additive Manufacturing, 2022, 9, 269-277.	2.9	16
82	Mammalian fauna and biostratigraphy of the pre-Neandertal site of Reilingen, Germany. Journal of Human Evolution, 1998, 34, 469-484.	2.6	15
83	Load bearing and stiffness tailored NiTi implants produced by additive manufacturing: a simulation study. Proceedings of SPIE, 2014, , .	0.8	15
84	Fast verification of Gamma Knife treatment plans. Journal of Applied Clinical Medical Physics, 2000, 1, 158.	1.9	15
85	<title>Spline-based approach for averaging three-dimensional curves and surfaces</title>. , 1993, 2035, 29.		13
86	<title>The wrapper: a surface optimization algorithm that preserves highly curved areas</title>. , 1994, 2359, 631.		13
87	A procedure to average 3D anatomical structures. Medical Image Analysis, 2000, 4, 317-334.	11.6	13
88	Fast verification of Gamma Knife treatment plans. Journal of Applied Clinical Medical Physics, 2000, 1, 158-164.	1.9	12
89	Electrospinning Complexly-shaped, Resorbable, Bifurcated Vascular Grafts. Procedia CIRP, 2017, 65, 207-212.	1.9	12
90	Enhancement of Bone Implants by Substituting Nitinol for Titanium (Ti-6Al-4V): A Modeling Comparison. , 2014, , .		11

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91	Effect of Zn content and aging temperature on the in-vitro properties of heat-treated and Ca/P ceramic-coated Mg-0.5%Ca-x%Zn alloys. Materials Science and Engineering C, 2019, 103, 109700.	7.3	11
92	Deformable templates for preoperative computer-aided design and fabrication of large cranial implants. International Congress Series, 2003, 1256, 710-715.	0.2	9
93	Highly Accurate CAD Tools for Cranial Implants. Lecture Notes in Computer Science, 2003, , 99-107.	1.3	6
94	Mechanomics Approaches to Understand Cell Behavior in Context of Tissue Neogenesis, During Prenatal Development and Postnatal Healing. Frontiers in Cell and Developmental Biology, 2019, 7, 354.	3.7	6
95	Biocompatibility of a novel heat-treated and ceramic-coated magnesium alloy (Mg-1.2Zn-0.5Ca-0.5Mn) for resorbable skeletal fixation devices. MRS Communications, 2020, 10, 467-474.	1.8	6
96	Bioprinting of Bone. , 2015, , 293-308.		5
97	Chi-Square Test of Biological Space Curve Affinities. , 1996, , 235-251.		5
98	Biological and Corrosion Evaluation of In Situ Alloyed NiTi Fabricated through Laser Powder Bed Fusion (LPBF). International Journal of Molecular Sciences, 2021, 22, 13209.	4.1	5
99	Scanned bi-orthogonal radiographs as a source for 3D cephalometric data. , 1996, 2710, 717.		4
100	Integration of Neurosurgical Image Guidance and an Intraoperative Magnetic Resonance Scanner. Stereotactic and Functional Neurosurgery, 2003, 80, 136-139.	1.5	4
101	Modeling and Validation of Additively Manufactured Porous Nitinol Implants. , 2014, , .		4
102	Statistical Shape Analysis. Journal of Human Evolution, 2000, 38, 455-457.	2.6	3
103	Three-dimensional imaging: The case Western Reserve University method. Seminars in Orthodontics, 2001, 7, 233-243.	1.4	3
104	Optimal gadolinium dose level for magnetic resonance imaging (MRI) contrast enhancement of U87-derived tumors in athymic nude rats for the assessment of photodynamic therapy. Proceedings of SPIE, 2009, , .	0.8	3
105	Computational Modeling of Tissue Engineering Scaffolds as Delivery Devices for Mechanical and Mechanically Modulated Signals. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2012, , 127-143.	1.0	3
106	Bioceramics for Musculoskeletal Regenerative Medicine: Materials and Manufacturing Process Compatibility for Synthetic Bone Grafts and Medical Devices. , 2018, , 161-193.		3
107	Monitoring Pc 4-mediated photodynamic therapy of U87 tumors with 18F- fluorodeoxy-glucose PET imaging in the Athymic Nude Rat. , 2007, , .		2
108	Fluorescence of Pc 4 in U87 cells following photodynamic therapy. , 2007, , .		2

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109	Craniofacial and Dental Tissue. , 2015, , 191-213.		2
110	The Effect of Heat-Treatment on Mechanical, Microstructural, and Corrosion Characteristics of a Magnesium Alloy With Potential Application in Resorbable Bone Fixation Hardware. , 2016, , .		2
111	On the Effect of Screw Preload on the Stress Distribution of Mandibles During Segmental Defect Treatment Using an Additively Manufactured Hardware. , 2016, , .		2
112	Morphometrics and Michaelangelo. Journal of Human Evolution, 1994, 27, 457-460.	2.6	1
113	Features of the Dmanisi mandible. Nature, 1995, 373, 473-473.	27.8	1
114	<title>Accuracy and precision of 3D cephalometric landmarks from biorthogonal plain-film x rays</title>. , 1998, , .		1
115	Surface smoothing and template partitioning for cranial implant CAD. , 2005, , .		1
116	A new Gamma Knife® radiosurgery paradigm: Tomosurgery. Medical Physics, 2007, 34, 1743-1758.	3.0	1
117	Monitoring Pc 4-mediated photodynamic therapy of U87 tumors with dynamic contrast enhanced-magnetic resonance imaging (DCE-MRI) in the athymic nude rat. Proceedings of SPIE, 2008, , .	0.8	1
118	Influence of Electrical Field Collector Positioning and Motion Scheme on Electrospun Bifurcated Vascular Graft Membranes. Materials, 2019, 12, 2123.	2.9	1
119	Use of stereolithography to manufacture critical-sized 3D biodegradable scaffolds for bone ingrowth. , 2003, 64B, 65.		1
120	Bioceramics for Musculoskeletal Regenerative Medicine: Materials and Manufacturing Process Compatibility for Synthetic Bone Grafts and Medical Devices. , 2018, , 1-33.		1
121	Local Integration of Commercially Available Intra-operative MR-scanner and Neurosurgical Guidance for Metalloporphyrin-Guided Tumor Resection and Photodynamic Therapy. Lecture Notes in Computer Science, 2000, , 338-347.	1.3	1
122	Mechanical evaluation of the SLM fabricated, stiffness-matched, mandibular bone fixation plates. , 2018, , .		1
123	The mechanical reliability of vat photopolymerization 3D printing of isosorbide-derived polyester porous tissue engineering scaffolds.. Procedia CIRP, 2022, 110, 117-121.	1.9	1
124	<title>New 3D Bolton standards: coregistration of biplane x rays and 3D CT</title>. , 1997, , .		0
125	<title>Effect of changing patient position from supine to prone on the accuracy of a Cosman-Roberts-Wells (CRW) stereotactic head frame system</title>. , 2002, 4681, 516.		0
126	Pc 4 photodynamic therapy of U87 (human glioma) orthotopic tumor in nude rat brain. , 2005, , .		0

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127	Hardware, software, and scanning issues encountered during small animal imaging of photodynamic therapy in the athymic nude rat. , 2007, , .		0
128	Dynamic contrast enhanced-magnetic resonance imaging (DCE-MRI) for the assessment of Pc 4-sensitized photodynamic therapy of a U87-derived glioma model in the athymic nude rat. Proceedings of SPIE, 2010, , .	0.8	0
129	Dynamic contrast enhanced-magnetic resonance imaging (DCE-MRI) of photodynamic therapy (PDT) outcome and associated changes in the blood-brain barrier following Pc 4-PDT of glioma in an athymic nude rat model. Proceedings of SPIE, 2012, , .	0.8	0
130	Medial Axis Seeding of a Guided Evolutionary Simulated Annealing (GESA) Algorithm for Automated Gamma Knife Radiosurgery Treatment Planning. Lecture Notes in Computer Science, 2001, , 441-448.	1.3	0
131	Optimization of Photocrosslinkable Resin Components and 3D Printing Process Parameters. SSRN Electronic Journal, 0, , .	0.4	0
132	Biofabrication 2019: Special Issue of Selected Papers from the Annual Meeting of the International Society for Biofabrication. Advanced Healthcare Materials, 2020, 9, e2002049.	7.6	0
133	Functional Measures of Therapy Based on Radiological Imaging. , 2009, , 427-438.		0
134	Craniofacial and Dental Tissue. , 2022, , 287-310.		0
135	Chaotic printing of hydrogel carriers for human mesenchymal stem cell expansion. Procedia CIRP, 2022, 110, 236-241.	1.9	0