

# David K Mills

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,231  
citations

279798

23  
h-index

223800

46  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2912  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospinning for tissue engineering applications. Progress in Materials Science, 2021, 117, 100721.	32.8	378
2	Nanoencapsulation of Stem Cells within Polyelectrolyte Multilayer Shells. Macromolecular Bioscience, 2007, 7, 877-882.	4.1	161
3	Stem cell attachment to layer-by-layer assembled TiO <sub>2</sub> nanoparticle thin films. Biomaterials, 2006, 27, 4296-4303.	11.4	136
4	Clay Nanotube/Poly(methyl methacrylate) Bone Cement Composites with Sustained Antibiotic Release. Macromolecular Materials and Engineering, 2012, 297, 645-653.	3.6	124
5	Enhanced efficiency of antiseptics with sustained release from clay nanotubes. RSC Advances, 2014, 4, 488-494.	3.6	116
6	A bird's eye view on the use of electrospun nanofibrous scaffolds for bone tissue engineering: Current state of the art, emerging directions and future trends. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2181-2200.	3.3	93
7	The behaviour of collagen fibres in stress relaxation and stress distribution in the jawjoint disc of rabbits. Archives of Oral Biology, 1996, 41, 1039-1052.	1.8	92
8	Medication eluting devices for the field of OBGYN (MEDOBYN): 3D printed biodegradable hormone eluting constructs, a proof of concept study. PLoS ONE, 2017, 12, e0182929.	2.5	82
9	Layer-by-Layer Assembly of TiO <sub>2</sub> Nanoparticles for Stable Hydrophilic Biocompatible Coatings. Journal of Nanoscience and Nanotechnology, 2005, 5, 1081-1087.	0.9	75
10	Sustained Release of Antibacterial Agents from Doped Halloysite Nanotubes. Bioengineering, 2016, 3, 1.	3.5	71
11	Bio-Based Polymers for 3D Printing of Bioscaffolds. Polymer Reviews, 2018, 58, 668-687.	10.9	67
12	Antibiotic and chemotherapeutic enhanced three-dimensional printer filaments and constructs for biomedical applications. International Journal of Nanomedicine, 2015, 10, 357.	6.7	64
13	3D Printed Antibiotic and Chemotherapeutic Eluting Catheters for Potential Use in Interventional Radiology. Academic Radiology, 2019, 26, 270-274.	2.5	64
14	3D Printing Custom Bioactive and Absorbable Surgical Screws, Pins, and Bone Plates for Localized Drug Delivery. Journal of Functional Biomaterials, 2019, 10, 17.	4.4	58
15	An animal model for studying mechanisms in human temporomandibular joint disc derangement. Journal of Oral and Maxillofacial Surgery, 1994, 52, 1279-1292.	1.2	52
16	Nanoparticle Multilayers: Surface Modification for Cell Attachment and Growth. Journal of Biomedical Nanotechnology, 2005, 1, 286-290.	1.1	52
17	Studies on the cytocompatibility, mechanical and antimicrobial properties of 3D printed poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlo 15.6 47	15.6	47
18	The Use of 3D Printing in the Fabrication of Nasal Stents. Inventions, 2018, 3, 1.	2.5	43

#	ARTICLE	IF	CITATIONS
19	Doped Halloysite Nanotubes for Use in the 3D Printing of Medical Devices. <i>Bioengineering</i> , 2017, 4, 96.	3.5	31
20	Surface Modification of 3D Printed PLA/Halloysite Composite Scaffolds with Antibacterial and Osteogenic Capabilities. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3971.	2.5	30
21	GELATIN-GLUTARALDEHYDE CROSS-LINKING ON SILICONE RUBBER TO INCREASE ENDOTHELIAL CELL ADHESION AND GROWTH. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2002, 38, 487.	1.5	29
22	Nanoenhanced hydrogel system with sustained release capabilities. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2416-2426.	4.0	28
23	Cellular Response to Gelatin- and Fibronectin-Coated Multilayer Polyelectrolyte Nanofilms. <i>IEEE Transactions on Nanobioscience</i> , 2005, 4, 170-179.	3.3	25
24	Cellular Analysis and Chemotherapeutic Potential of a Bi-Functionalized Halloysite Nanotube. <i>Pharmaceutics</i> , 2020, 12, 962.	4.5	22
25	Electrophoretic Deposition of Gentamicin-Loaded ZnHNTs-Chitosan on Titanium. <i>Coatings</i> , 2020, 10, 944.	2.6	21
26	The Effect of Halloysite Addition on the Material Properties of Chitosan-Halloysite Hydrogel Composites. <i>Gels</i> , 2019, 5, 40.	4.5	20
27	Bi-Functionalized Clay Nanotubes for Anti-Cancer Therapy. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 281.	2.5	19
28	Performance evaluation of nanoclay enriched anti-microbial hydrogels for biomedical applications. <i>Heliyon</i> , 2016, 2, e00072.	3.2	18
29	Three-Dimensional Printing Antimicrobial and Radiopaque Constructs. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 29-36.	2.9	18
30	Antibiotics in 3D-printed implants, instruments and materials: benefits, challenges and future directions. <i>Journal of 3D Printing in Medicine</i> , 2019, 3, 83-93.	2.0	18
31	Personalized Bioactive Nasal Supports for Postoperative Cleft Rhinoplasty. <i>Journal of Oral and Maxillofacial Surgery</i> , 2018, 76, 1562.e1-1562.e5.	1.2	17
32	Future Medicine: The Impact of 3D Printing. <i>Journal of Nanomaterials &amp; Molecular Nanotechnology</i> , 2015, 04, .	0.1	16
33	From solvent-free microspheres to bioactive gradient scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1157-1169.	3.3	14
34	Creating Structured Hydrogel Microenvironments for Regulating Stem Cell Differentiation. <i>Gels</i> , 2020, 6, 47.	4.5	13
35	Dry Sintered Metal Coating of Halloysite Nanotubes. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 265.	2.5	11
36	3D printed antimicrobial PLA constructs functionalised with zinc-coated halloysite nanotubes-Ag-chitosan oligosaccharide lactate. <i>Materials Technology</i> , 0, , 1-8.	3.0	11

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37	Therapeutic Applications of Halloysite. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 87.	2.5	11
38	Effect of barium-coated halloysite nanotube addition on the cytocompatibility, mechanical and contrast properties of poly(methyl methacrylate) cement. <i>Nanotechnology, Science and Applications</i> , 2017, Volume 10, 105-114.	4.6	10
39	Fibrochondrocyte Growth and Functionality on TiO <sub>2</sub> Nanorod Films. <i>Journal of Functional Biomaterials</i> , 2016, 7, 15.	4.4	9
40	Effectiveness and Applications of a Metal-Coated HNT/Polylactic Acid Antimicrobial Filtration System. <i>Polymers</i> , 2022, 14, 1603.	4.5	9
41	Design and evaluation of a nanoenhanced anti-infective calcium phosphate bone cements. , 2014, 2014, 3921-4.		8
42	Osteoinductive Calcium Phosphate clay nanoparticle bone cements (CPCs) with enhanced mechanical properties. , 2014, 2014, 3917-20.		5
43	Antibacterial and antibiofouling clay nanotube&ndash;silicone composite. <i>Medical Devices: Evidence and Research</i> , 2018, Volume 11, 123-137.	0.8	5
44	Chondrocyte Behavior on Micropatterns Fabricated Using Layer-by-Layer Lift-Off: Morphological Analysis. <i>Journal of Medical Engineering</i> , 2013, 2013, 1-12.	1.1	4
45	Voltage regulated electrophoretic deposition of silver nanoparticles on halloysite nanotubes. <i>Results in Materials</i> , 2020, 7, 100112.	1.8	4
46	Micropatterned antibody-terminated nanocomposites (MANs) fabricated using layer-by-layer lift-off (LBL&ndash;LO) technique. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1411-1415.	3.4	3
47	Validation of Acoustic Wave Induced Traumatic Brain Injury in Rats. <i>Brain Sciences</i> , 2017, 7, 59.	2.3	3
48	Calcium Phosphate/Clay Nanotube Bone Cement with Enhanced Mechanical Properties and Sustained Drug Release. , 2018, , .		3
49	Differential antimicrobial and cellular response of electrolytically metalized halloysite nanotubes having different amounts of surface metallization. <i>Materials Advances</i> , 2020, 1, 1705-1715.	5.4	3
50	Growth and behaviour of bovine articular chondrocytes on nanoengineered surfaces: Part I. <i>International Journal of Nanotechnology</i> , 2011, 8, 679.	0.2	2
51	Growth and Functionality of Cells Cultured on Conducting and Semi-Conducting Surfaces Modified with Self-Assembled Monolayers (SAMs). <i>Coatings</i> , 2016, 6, 9.	2.6	2
52	Tissue Engineering Nanoclay Composite Scaffolds Composed of Poly-Glycerol Sebacate and Poly-Caprolactone. , 2016, , .		2
53	Stem Cell Proliferation and Differentiation through Capped Clay Nanotubes. , 2016, , .		2
54	The Role of Polymer Additives in Enhancing the Response of Calcium Phosphate Cement. , 2018, , 345-379.		2

#	ARTICLE	IF	CITATIONS
55	Reduced Supply in the Organ Donor Market and How 3D Printing Can Address This Shortage: A Critical Inquiry into the Collateral Effects of Driverless Cars. Applied Sciences (Switzerland), 2020, 10, 6400.	2.5	2
56	Chitosan-Halloysite Hydrogel Drug Delivery System. , 2016, , .		1
57	Potential liability for universities and university faculty researching emerging technologies at the nanoscale. Medicolegal and Bioethics, 2017, Volume 7, 1-11.	1.7	1
58	Formulation and Evaluation of Nanoenhanced Anti-bacterial Calcium Phosphate Bone Cements. , 2017, , 85-108.		1
59	Bioactive Hydrogels for TMJ Repair. FASEB Journal, 2012, 26, 917.4.	0.5	1
60	Surface Modification of Halloysite Nanotubes Capable of Encapsulating a Secondary Therapeutic. , 2016, , .		0
61	Understanding Cancer Cell Behavior Through 3D Printed Bone Microenvironments. , 2019, , 163-189.		0
62	Pleiotrophin loaded halloysite nanoparticles as chemoattractants for osteoblasts. FASEB Journal, 2013, 27, lb27.	0.5	0
63	Nanoenhanced Hydrogel System with Sustained Release Capabilities for Bone Regeneration. FASEB Journal, 2013, 27, 521.5.	0.5	0
64	3D Printed Ceramic-Polymer Composites for Treating Bone Infection. , 2020, , 613-635.		0