

Yi Deng

List of Publications by Year in descending order

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93
papers

3,930
citations

101543

36
h-index

138484

58
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94
all docs

94
docs citations

94
times ranked

4845
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyetheretherketone/nano-fluorohydroxyapatite composite with antimicrobial activity and osseointegration properties. <i>Biomaterials</i> , 2014, 35, 6758-6775.	11.4	255
2	Characterization, corrosion behavior, cellular response and in vivo bone tissue compatibility of titanium–niobium alloy with low Young's modulus. <i>Materials Science and Engineering C</i> , 2016, 59, 565-576.	7.3	149
3	Polydopamine-Templated Hydroxyapatite Reinforced Polycaprolactone Composite Nanofibers with Enhanced Cytocompatibility and Osteogenesis for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3499-3515.	8.0	143
4	Dual Physically Cross-Linked κ -Carrageenan-Based Double Network Hydrogels with Superior Self-Healing Performance for Biomedical Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37544-37554.	8.0	136
5	AgNPs-decorated 3D printed PEEK implant for infection control and bone repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 483-492.	5.0	113
6	Antibiotic-decorated titanium with enhanced antibacterial activity through adhesive polydopamine for dental/bone implant. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140169.	3.4	111
7	MXene-Based Hydrogels Endow Polyetheretherketone with Effective Osteogenicity and Combined Treatment of Osteosarcoma and Bacterial Infection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45891-45903.	8.0	111
8	Effect of surface roughness on osteogenesis in vitro and osseointegration in vivo of carbon fiber-reinforced polyetheretherketone–nanohydroxyapatite composite. <i>International Journal of Nanomedicine</i> , 2015, 10, 1425.	6.7	109
9	Rapidly-Deposited Polydopamine Coating via High Temperature and Vigorous Stirring: Formation, Characterization and Biofunctional Evaluation. <i>PLoS ONE</i> , 2014, 9, e113087.	2.5	100
10	Graphene&Oxide&DDecorated Microporous Polyetheretherketone with Superior Antibacterial Capability and In Vitro Osteogenesis for Orthopedic Implant. <i>Macromolecular Bioscience</i> , 2018, 18, e1800036.	4.1	97
11	Preparation, characterization, cellular response and in vivo osseointegration of polyetheretherketone/nano-hydroxyapatite/carbon fiber ternary biocomposite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 64-73.	5.0	87
12	Peptide decorated nano-hydroxyapatite with enhanced bioactivity and osteogenic differentiation via polydopamine coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 107-116.	5.0	86
13	Two-dimensional MXene/cobalt nanowire heterojunction for controlled drug delivery and chemo-photothermal therapy. <i>Materials Science and Engineering C</i> , 2020, 116, 111212.	7.3	80
14	Enhancement of osteogenesis on micro/nano-topographical carbon fiber-reinforced polyetheretherketone–nanohydroxyapatite biocomposite. <i>Materials Science and Engineering C</i> , 2015, 48, 592-598.	7.3	75
15	Preparation of high performance conductive polymer fibres from double percolated structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 6401.	6.7	71
16	Peptide-laden mesoporous silica nanoparticles with promoted bioactivity and osteo-differentiation ability for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 131, 73-82.	5.0	70
17	Two-dimensional nanocoating-enabled orthopedic implants for bimodal therapeutic applications. <i>Nanoscale</i> , 2020, 12, 11936-11946.	5.6	69
18	Graphene Oxide and Adiponectin-Functionalized Sulfonated Poly(etheretherketone) with Effective Osteogenicity and Remotely Repeatable Photodisinfection. <i>Chemistry of Materials</i> , 2020, 32, 2180-2193.	6.7	66

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19	Synergism of 2D/1D MXene/cobalt nanowire heterojunctions for boosted photo-activated antibacterial application. <i>Chemical Engineering Journal</i> , 2021, 410, 128209.	12.7	60
20	Nutrient Element Decorated Polyetheretherketone Implants Steer Mitochondrial Dynamics for Boosted Diabetic Osseointegration. <i>Advanced Science</i> , 2021, 8, e2101778.	11.2	59
21	Copper ferrite heterojunction coatings empower polyetheretherketone implant with multi-modal bactericidal functions and boosted osteogenicity through synergistic photo/Fenton-therapy. <i>Chemical Engineering Journal</i> , 2021, 422, 130094.	12.7	59
22	A carboxymethyl chitosan and peptide-decorated polyetheretherketone ternary biocomposite with enhanced antibacterial activity and osseointegration as orthopedic/dental implants. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1878-1890.	5.8	55
23	Dual Ag/ZnO-Decorated Micro-/Nanoporous Sulfonated Polyetheretherketone with Superior Antibacterial Capability and Biocompatibility via Layer-by-Layer Self-Assembly Strategy. <i>Macromolecular Bioscience</i> , 2018, 18, e1800028.	4.1	55
24	Multifunctional Surface with Enhanced Angiogenesis for Improving Long-Term Osteogenic Fixation of Poly(ether ether ketone) Implants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14971-14982.	8.0	54
25	Peptide-incorporated 3D porous alginate scaffolds with enhanced osteogenesis for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 243-251.	5.0	53
26	Biomimetic synthesis and biocompatibility evaluation of carbonated apatites template-mediated by heparin. <i>Materials Science and Engineering C</i> , 2013, 33, 2905-2913.	7.3	52
27	Engineering of a Hollow-Structured Cu ₂ X Nano-Homojunction Platform for Near Infrared-Triggered Infected Wound Healing and Cancer Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2106700.	14.9	52
28	Bioinspired and osteopromotive polydopamine nanoparticle-incorporated fibrous membranes for robust bone regeneration. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	51
29	Infection Micromilieu-Activated Nanocatalytic Membrane for Orchestrating Rapid Sterilization and Stalled Chronic Wound Regeneration. <i>Advanced Functional Materials</i> , 2022, 32, 2109469.	14.9	51
30	Growth Factor-Decorated Ti ₃ C ₂ MXene/MoS ₂ 2D Bio-Heterojunctions with Quad-Channel Photonic Disinfection for Effective Regeneration of Bacteria-Invaded Cutaneous Tissue. <i>Small</i> , 2021, 17, e2103993.	10.0	47
31	Novel Biocompatible Thermoresponsive Poly(N-vinyl Caprolactam)/Clay Nanocomposite Hydrogels with Macroporous Structure and Improved Mechanical Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21979-21990.	8.0	46
32	Tantalum Nitride-Decorated Titanium with Enhanced Resistance to Microbiologically Induced Corrosion and Mechanical Property for Dental Application. <i>PLoS ONE</i> , 2015, 10, e0130774.	2.5	44
33	Mechanical properties of hybrid short fibers reinforced oil well cement by polyester fiber and calcium carbonate whisker. <i>Construction and Building Materials</i> , 2018, 182, 258-272.	7.2	42
34	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12123-12135.	3.7	42
35	A Novel Hydrogel Surface Grafted With Dual Functional Peptides for Sustaining Long-Term Self-Renewal of Human Induced Pluripotent Stem Cells and Manipulating Their Osteoblastic Maturation. <i>Advanced Functional Materials</i> , 2018, 28, 1705546.	14.9	41
36	Enhanced antibacterial property and osteo-differentiation activity on plasma treated porous polyetheretherketone with hierarchical micro/nano-topography. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 520-542.	3.5	38

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37	Bioinspired, biocompatible and peptide-decorated silk fibroin coatings for enhanced osteogenesis of bioinert implant. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1595-1611.	3.5	38
38	Drug-loaded/grafted peptide-modified porous PEEK to promote bone tissue repair and eliminate bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 767-777.	5.0	38
39	In Vitro Culture and Directed Osteogenic Differentiation of Human Pluripotent Stem Cells on Peptides-Decorated Two-Dimensional Microenvironment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4560-4572.	8.0	36
40	Peptide-Decorated Nanofibrous Niche Augments In Vitro Directed Osteogenic Conversion of Human Pluripotent Stem Cells. <i>Biomacromolecules</i> , 2017, 18, 587-598.	5.4	36
41	Preparation of magnetic Ni-P amorphous alloy microspheres and their catalytic performance towards thermal decomposition of ammonium perchlorate. <i>Applied Surface Science</i> , 2017, 425, 261-271.	6.1	36
42	Preparation, characterization and in vitro dissolution behavior of porous biphasic β - β -tricalcium phosphate bioceramics. <i>Materials Science and Engineering C</i> , 2016, 59, 1007-1015.	7.3	35
43	Strontium/adiponectin co-decoration modulates the osteogenic activity of nano-morphologic polyetheretherketone implant. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 38-46.	5.0	35
44	Nano-hydroxyapatite reinforced polyphenylene sulfide biocomposite with superior cytocompatibility and in vivo osteogenesis as a novel orthopedic implant. <i>RSC Advances</i> , 2017, 7, 559-573.	3.6	33
45	In situ synthesis and in vitro biocompatibility of needle-like nano-hydroxyapatite in agarose gelatin co-hydrogel. <i>Materials Letters</i> , 2013, 104, 8-12.	2.6	31
46	Dual therapeutic cobalt-incorporated bioceramics accelerate bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2019, 99, 770-782.	7.3	31
47	HAp@GO drug delivery vehicle with dual-stimuli-triggered drug release property and efficient synergistic therapy function against cancer. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2296-2309.	4.0	29
48	Cobalt nanowire-based multifunctional platform for targeted chemo-photothermal synergistic cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 401-410.	5.0	29
49	Uniaxial compression mechanical property and fracture behavior of hybrid inorganic short mineral fibers reinforced cement-based material. <i>Cement and Concrete Composites</i> , 2019, 104, 103338.	10.7	27
50	Solidification and multi-cytotoxicity evaluation of thermally treated MSWI fly ash. <i>Journal of Hazardous Materials</i> , 2020, 388, 122041.	12.4	27
51	Ag and peptide co-decorate polyetheretherketone to enhance antibacterial property and osteogenic differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 198, 111492.	5.0	27
52	Sequential gastrodin release PU/n-HA composite scaffolds reprogram macrophages for improved osteogenesis and angiogenesis. <i>Bioactive Materials</i> , 2023, 19, 24-37.	15.6	27
53	Peptide-decorated polyvinyl alcohol/hyaluronan nanofibers for human induced pluripotent stem cell culture. <i>Carbohydrate Polymers</i> , 2014, 101, 36-39.	10.2	26
54	Ce/Mn dual-doped LaAlO ₃ ceramics with enhanced far-infrared emission capability synthesized via a facile microwave sintering method. <i>Journal of Alloys and Compounds</i> , 2019, 774, 434-442.	5.5	26

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55	Photo-Activated Nanofibrous Membrane with Self-Rechargeable Antibacterial Function for Stubborn Infected Cutaneous Regeneration. <i>Small</i> , 2022, 18, e2105988.	10.0	26
56	Decoration of heparin and bovine serum albumin on polysulfone membrane assisted via polydopamine strategy for hemodialysis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 880-897.	3.5	25
57	Preparation of nano-sized titanium carbide particles via a vacuum carbothermal reduction approach coupled with purification under hydrogen/argon mixed gas. <i>RSC Advances</i> , 2017, 7, 9037-9044.	3.6	25
58	Osteogenesis and Antibacterial Activity of Graphene Oxide and Dexamethasone Coatings on Porous Polyetheretherketone via Polydopamine-Assisted Chemistry. <i>Coatings</i> , 2018, 8, 203.	2.6	25
59	Bimetal metal-organic framework domino micro-reactor for synergistic antibacterial starvation/chemodynamic therapy and robust wound healing. <i>Nanoscale</i> , 2022, 14, 2052-2064.	5.6	25
60	¹ H-nuclear magnetic resonance-based metabonomic analysis of brain in rhesus monkeys with morphine treatment and withdrawal intervention. <i>Journal of Neuroscience Research</i> , 2012, 90, 2154-2162.	2.9	23
61	Preparation and catalytic activity of magnetic bimetallic nickel/copper nanowires. <i>RSC Advances</i> , 2017, 7, 17781-17787.	3.6	23
62	Prenatal cocaine exposure impairs cognitive function of progeny via insulin growth factor II epigenetic regulation. <i>Neurobiology of Disease</i> , 2015, 82, 54-65.	4.4	22
63	Effect of lanthanum doping on the far-infrared emission property of vanadium-titanium slag ceramic. <i>RSC Advances</i> , 2017, 7, 13509-13516.	3.6	22
64	Dual Therapy Coating on Micro/Nanoscale Porous Polyetheretherketone to Eradicate Biofilms and Accelerate Bone Tissue Repair. <i>Macromolecular Bioscience</i> , 2019, 19, e1800376.	4.1	21
65	Facile synthesis and characterization of multifunctional cobalt-based nanocomposites for targeted chemo-photothermal synergistic cancer therapy. <i>Composites Part B: Engineering</i> , 2019, 178, 107521.	12.0	19
66	Development of dual-component protein microparticles in all-aqueous systems for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3059-3065.	5.8	19
67	Exploring the underlying mechanisms behind the increased far infrared radiation properties of perovskite-type Ce/Mn co-doped ceramics. <i>Materials Research Bulletin</i> , 2019, 109, 233-239.	5.2	18
68	Fusion Peptide-Engineered Polyetheretherketone Implants with Photo-Assisted Anti-Pathogen and Enhanced Angiogenesis for in vivo Osseointegrative Fixation. <i>Chemical Engineering Journal</i> , 2022, 446, 137453.	12.7	18
69	Effects of Microwave-Assisted Thermal Treatment on the Fate of Heavy Metals in Municipal Solid Waste Incineration Fly Ash. <i>Energy & Fuels</i> , 2017, 31, 12446-12454.	5.1	17
70	In situ synthesis and catalytic application of reduced graphene oxide supported cobalt nanowires. <i>Applied Surface Science</i> , 2018, 441, 955-964.	6.1	17
71	Electrocoalescence of liquid marbles driven by embedded electrodes for triggering bioreactions. <i>Lab on A Chip</i> , 2019, 19, 3526-3534.	6.0	16
72	Hierarchical ZnO Nanotube/Graphene Oxide Nanostructures Endow Pure Zn Implant with Synergistic Bactericidal Activity and Osteogenicity. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19377-19385.	3.7	16

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73	Heterostructured Metal-Organic Frameworks/Polydopamine Coating Endows Polyetheretherketone Implants with Multimodal Osteogenicity and Photoswitchable Disinfection. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200641.	7.6	15
74	Solidification and Biototoxicity Assessment of Thermally Treated Municipal Solid Waste Incineration (MSWI) Fly Ash. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 626.	2.6	14
75	Chitosan-based asymmetric topological membranes with cell-like features for healthcare applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2634-2642.	5.8	14
76	In Vitro Growth of Bioactive Nanostructured Apatites via Agar-Gelatin Hybrid Hydrogel. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1972-1983.	1.1	13
77	The reinforcement attributes of multi-scale hybrid fiber throughout the uniaxial compression of ultra-low-weight foamed cement-based composites. <i>Construction and Building Materials</i> , 2020, 242, 118184.	7.2	12
78	Multi-activity cobalt ferrite/MXene nanoenzymes for drug-free phototherapy in bacterial infection treatment. <i>RSC Advances</i> , 2022, 12, 11090-11099.	3.6	11
79	Simvastatin delivery on PEEK for bioactivity and osteogenesis enhancements. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 2237-2251.	3.5	9
80	Stabilization of lead in incineration fly ash by moderate thermal treatment with sodium hydroxide addition. <i>PLoS ONE</i> , 2017, 12, e0178816.	2.5	8
81	Magnetic targeting cobalt nanowire-based multifunctional therapeutic system for anticancer treatment and angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111217.	5.0	8
82	Endowing polyetheretherketone with anti-inflammatory ability and improved osteogenic ability. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021, 32, 42-59.	3.5	8
83	Investigation on the interaction of collagen molecules in solution with different acetic acid concentrations. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45255.	2.6	7
84	Environmental-Friendly and Facile Synthesis of Co ₃ O ₄ Nanowires and Their Promising Application with Graphene in Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2017, 12, 615.	5.7	5
85	Fibroin/peptide co-functionalized calcium titanate nanorods improve osteoinductivity of titanium via mimicking osteogenic niche. <i>Materials Science and Engineering C</i> , 2019, 103, 109836.	7.3	5
86	The non-viral vectors and main methods of loading siRNA onto the titanium implants and their application. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 2152-2168.	3.5	5
87	Compressive behaviors of ultra-low-weight foamed cement-based composite reinforced by polypropylene short fibers. <i>International Journal of Damage Mechanics</i> , 2020, 29, 1306-1325.	4.2	5
88	Metal-organic frameworks/polydopamine coating endows polyetheretherketone with disinfection and osteogenicity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 783-794.	3.4	4
89	Independent effects of structural optimization and resveratrol functionalization on extracellular matrix scaffolds for bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 212, 112370.	5.0	4
90	Zinc-coordinated polydopamine surface with a nanostructure and superhydrophilicity for antibiofouling and antibacterial applications. <i>Materials Advances</i> , 2022, 3, 5476-5487.	5.4	3

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91	Preparation of broccoli-like ferromagnetic cobalt microstructures with superior coercivity via an aqueous reduction strategy. RSC Advances, 2016, 6, 66152-66160.	3.6	2
92	Preparation and Coloration of Colored Ceramics Derived from the Vanadium-Titanium Slags. Advances in Materials Science and Engineering, 2018, 2018, 1-8.	1.8	1
93	Rheology and Porosity of Ultralow Density Foamed Cement Pastes Derived from Ordinary Portland Cement and Hydrogen Peroxide. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	0