

Hong Xia

List of Publications by Year in descending order

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103
papers

3,210
citations

117571

34
h-index

175177

52
g-index

110
all docs

110
docs citations

110
times ranked

4169
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Copper-Containing Carboxymethyl Chitosan/Alginate Scaffolds for Eradicating Clinical Bacterial Infection and Promoting Bone Formation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 127-138.	4.0	142
2	Toward a Molecular Understanding of the Antibacterial Mechanism of Copper-Bearing Titanium Alloys against <i>Staphylococcus aureus</i> . <i>Advanced Healthcare Materials</i> , 2016, 5, 557-566.	3.9	140
3	Comparative in vitro study on binary Mg-RE (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) alloy systems. <i>Acta Biomaterialia</i> , 2020, 102, 508-528.	4.1	135
4	Biofunctions of antimicrobial peptide-conjugated alginate/hyaluronic acid/collagen wound dressings promote wound healing of a mixed-bacteria-infected wound. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 330-342.	3.6	122
5	Actively Targeted Deep Tissue Imaging and Photothermal-Chemo Therapy of Breast Cancer by Antibody-Functionalized Drug-Loaded X-Ray-Responsive Bismuth Sulfide@Mesoporous Silica Core-Shell Nanoparticles. <i>Advanced Functional Materials</i> , 2018, 28, 1704623.	7.8	120
6	Irreducible Anterior Atlantoaxial Dislocation. <i>Spine</i> , 2005, 30, E375-E381.	1.0	99
7	A New Treatment Modality for Rheumatoid Arthritis: Combined Photothermal and Photodynamic Therapy Using Cu _{7.2} S ₄ Nanoparticles. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800013.	3.9	94
8	Enhancing Osteosarcoma Killing and CT Imaging Using Ultrahigh Drug Loading and NIR-Responsive Bismuth Sulfide@Mesoporous Silica Nanoparticles. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800602.	3.9	85
9	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42146-42154.	4.0	81
10	Zero-Dimensional Carbon Dots Enhance Bone Regeneration, Osteosarcoma Ablation, and Clinical Bacterial Eradication. <i>Bioconjugate Chemistry</i> , 2018, 29, 2982-2993.	1.8	74
11	3D-printed guiding templates for improved osteosarcoma resection. <i>Scientific Reports</i> , 2016, 6, 23335.	1.6	73
12	Biocompatible and Biodegradable Bioplastics Constructed from Chitin via a "Green" Pathway for Bone Repair. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9126-9135.	3.2	71
13	Rubbery Chitosan/Carrageenan Hydrogels Constructed through an Electroneutrality System and Their Potential Application as Cartilage Scaffolds. <i>Biomacromolecules</i> , 2018, 19, 340-352.	2.6	70
14	Ultrafast in-situ forming halloysite nanotube-doped chitosan/oxidized dextran hydrogels for hemostasis and wound repair. <i>Carbohydrate Polymers</i> , 2021, 267, 118155.	5.1	68
15	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , 2017, 7, 3387-3397.	4.6	67
16	Hsa_circ_0045714 regulates chondrocyte proliferation, apoptosis and extracellular matrix synthesis by promoting the expression of miR-193b target gene IGF1R. <i>Human Cell</i> , 2017, 30, 311-318.	1.2	65
17	Efficient elimination of multidrug-resistant bacteria using copper sulfide nanozymes anchored to graphene oxide nanosheets. <i>Nano Research</i> , 2020, 13, 2156-2164.	5.8	63
18	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , 2019, 98, 50-66.	4.1	62

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19	High-activity chitosan/nano hydroxyapatite/zoledronic acid scaffolds for simultaneous tumor inhibition, bone repair and infection eradication. <i>Materials Science and Engineering C</i> , 2018, 82, 225-233.	3.8	59
20	Stimulatory effects of the degradation products from Mg-Ca-Sr alloy on the osteogenesis through regulating ERK signaling pathway. <i>Scientific Reports</i> , 2016, 6, 32323.	1.6	58
21	Anterior Cruciate Ligament Injuries Alter the Kinematics of Knees With or Without Meniscal Deficiency. <i>American Journal of Sports Medicine</i> , 2016, 44, 3132-3139.	1.9	53
22	Synergistic Photothermal and Photodynamic Therapy for Effective Implant-Related Bacterial Infection Elimination and Biofilm Disruption Using Cu ₉ S ₈ Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6243-6253.	2.6	53
23	3D printed personalized titanium plates improve clinical outcome in microwave ablation of bone tumors around the knee. <i>Scientific Reports</i> , 2017, 7, 7626.	1.6	52
24	Integrating 3D-printed PHBV/Calcium sulfate hemihydrate scaffold and chitosan hydrogel for enhanced osteogenic property. <i>Carbohydrate Polymers</i> , 2018, 202, 106-114.	5.1	50
25	Improved osteogenesis and angiogenesis of a novel copper ions doped calcium phosphate cement. <i>Materials Science and Engineering C</i> , 2020, 114, 111032.	3.8	48
26	Transoral Atlantoaxial Reduction Plate Internal Fixation with Transoral Transpedicular or Articular Mass Screw of C2 for the Treatment of Irreducible Atlantoaxial Dislocation. <i>Spine</i> , 2011, 36, E556-E562.	1.0	45
27	Motion analysis of Chinese normal knees during gait based on a novel portable system. <i>Gait and Posture</i> , 2015, 41, 763-768.	0.6	45
28	Improving osteogenesis of calcium phosphate bone cement by incorporating with manganese doped β -tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2020, 109, 110481.	3.8	45
29	3D printing of Cu-doped bioactive glass composite scaffolds promotes bone regeneration through activating the HIF-1 α and TNF- α pathway of hUVECs. <i>Biomaterials Science</i> , 2021, 9, 5519-5532.	2.6	43
30	Hierarchical Microspheres Constructed from Chitin Nanofibers Penetrated Hydroxyapatite Crystals for Bone Regeneration. <i>Biomacromolecules</i> , 2017, 18, 2080-2089.	2.6	42
31	Built-in microscale electrostatic fields induced by anatase \leftrightarrow rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , 2016, 8, e243-e243.	3.8	41
32	Transoral atlantoaxial reduction plate internal fixation for the treatment of irreducible atlantoaxial dislocation: a 2- to 4-year follow-up. <i>Orthopaedic Surgery</i> , 2010, 2, 149-155.	0.7	38
33	Treatment of basilar invagination with atlantoaxial dislocation: atlantoaxial joint distraction and fixation with transoral atlantoaxial reduction plate (TARP) without odontoidectomy. <i>European Spine Journal</i> , 2014, 23, 1648-1655.	1.0	37
34	AgBiS ₂ nanoparticles with synergistic photodynamic and bioimaging properties for enhanced malignant tumor phototherapy. <i>Materials Science and Engineering C</i> , 2020, 107, 110324.	3.8	37
35	Strontium-substituted hydroxyapatite grown on graphene oxide nanosheet-reinforced chitosan scaffold to promote bone regeneration. <i>Biomaterials Science</i> , 2020, 8, 4603-4615.	2.6	36
36	Relationship between Kellgren-Lawrence score and 3D kinematic gait analysis of patients with medial knee osteoarthritis using a new gait system. <i>Scientific Reports</i> , 2017, 7, 4080.	1.6	32

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37	Assembling Microgels via Dynamic Cross-Linking Reaction Improves Printability, Microporosity, Tissue-Adhesion, and Self-Healing of Microgel Bioink for Extrusion Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15653-15666.	4.0	32
38	Delivery of inhibitor of growth 4 (ING4) gene significantly inhibits proliferation and invasion and promotes apoptosis of human osteosarcoma cells. <i>Scientific Reports</i> , 2014, 4, 7380.	1.6	30
39	Molecular mechanisms of osteogenesis and antibacterial activity of Cu-bearing Ti alloy in a bone defect model with infection in vivo. <i>Journal of Orthopaedic Translation</i> , 2021, 27, 77-89.	1.9	30
40	Determination of antibacterial properties and cytocompatibility of silver-loaded coral hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2453-2462.	1.7	29
41	New Clinical Classification System for Atlantoaxial Dislocation. <i>Orthopedics</i> , 2013, 36, e95-100.	0.5	29
42	Ultralong tumor retention of theranostic nanoparticles with short peptide-enabled active tumor homing. <i>Materials Horizons</i> , 2019, 6, 1845-1853.	6.4	27
43	Chemical functionalization of bone implants with nanoparticle-stabilized chitosan and methotrexate for inhibiting both osteoclastoma formation and bacterial infection. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5952.	2.9	25
44	An 11-Year Review of the TARP Procedure in the Treatment of Atlantoaxial Dislocation. <i>Spine</i> , 2016, 41, E1151-E1158.	1.0	24
45	Development of CaCO ₃ microsphere-based composite hydrogel for dual delivery of growth factor and Ca to enhance bone regeneration. <i>Biomaterials Science</i> , 2019, 7, 3614-3626.	2.6	22
46	Conducting molybdenum sulfide/graphene oxide/polyvinyl alcohol nanocomposite hydrogel for repairing spinal cord injury. <i>Journal of Nanobiotechnology</i> , 2022, 20, 210.	4.2	22
47	Multifunctional Cu ₃₉ S ₂₈ hollow nanopeanuts for in vivo targeted photothermal chemotherapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6740-6751.	2.9	21
48	Strontium ranelate simultaneously improves the radiopacity and osteogenesis of calcium phosphate cement. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 035005.	1.7	20
49	Bilayer pifithrin- α loaded extracellular matrix/PLGA scaffolds for enhanced vascularized bone formation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110903.	2.5	20
50	Efficient delivery of recombinant human bone morphogenetic protein (rhBMP-2) with dextran sulfate-chitosan microspheres. <i>Experimental and Therapeutic Medicine</i> , 2018, 15, 3265-3272.	0.8	19
51	Surgical Site Infections Following the Transoral Approach. <i>Clinical Spine Surgery</i> , 2016, 29, E502-E508.	0.7	18
52	Kinematic Characteristics of an Osteotomy of the Proximal Aspect of the Fibula During Walking. <i>JBJS Case Connector</i> , 2017, 7, e43-e43.	0.1	17
53	Platelet-derived growth factor promotes osteoblast proliferation by activating G-protein-coupled receptor kinase interactor-1. <i>Molecular Medicine Reports</i> , 2014, 10, 1349-1354.	1.1	15
54	Engineered Fe(OH) ₃ nanoparticle-coated and rhBMP-2-releasing PLGA microsphere scaffolds for promoting bone regeneration by facilitating cell homing and osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2831-2842.	2.9	15

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55	Loose Pre-Cross-Linking Mediating Cellulose Self-Assembly for 3D Printing Strong and Tough Biomimetic Scaffolds. <i>Biomacromolecules</i> , 2022, 23, 877-888.	2.6	15
56	Treatment of trauma-induced femoral head necrosis with biodegradable pure Mg screw-fixed pedicle iliac bone flap. <i>Journal of Orthopaedic Translation</i> , 2019, 17, 133-137.	1.9	14
57	Bioactive strontium ions/ginsenoside Rg1 incorporated biodegradable silk fibroin-gelatin scaffold promoted challenging osteoporotic bone regeneration. <i>Materials Today Bio</i> , 2021, 12, 100141.	2.6	14
58	The development and evaluation of individualized templates to assist transoral C2 articular mass or transpedicular screw placement in TARP-IV procedures: adult cadaver specimen study. <i>Clinics</i> , 2014, 69, 750-757.	0.6	14
59	Treatment of Basilar Invagination With Klippel-Feil Syndrome. <i>Neurosurgery</i> , 2016, 78, 492-498.	0.6	13
60	Atlantoaxial Joint Distraction for the Treatment of Basilar Invagination: Clinical Outcomes and Radiographic Evaluation. <i>World Neurosurgery</i> , 2018, 111, e135-e141.	0.7	13
61	Osteon-mimetic 3D nanofibrous scaffold enhances stem cell proliferation and osteogenic differentiation for bone regeneration. <i>Biomaterials Science</i> , 2022, 10, 1090-1103.	2.6	13
62	Local delivery of naringin in beta-cyclodextrin modified mesoporous bioactive glass promotes bone regeneration: from anti-inflammatory to synergistic osteogenesis and osteoclastogenesis. <i>Biomaterials Science</i> , 2022, 10, 1697-1712.	2.6	13
63	Assessment of fracture risk in proximal tibia with tumorous bone defects by a finite element method. <i>Microscopy Research and Technique</i> , 2017, 80, 975-984.	1.2	12
64	Kinematic features in patients with lateral discoid meniscus injury during walking. <i>Scientific Reports</i> , 2018, 8, 5053.	1.6	12
65	Management of pediatric patients with irreducible atlantoaxial dislocation: transoral anterior release, reduction, and fixation. <i>Journal of Neurosurgery: Pediatrics</i> , 2019, 24, 323-329.	0.8	10
66	Role of platelet derived growth factor (PDGF) in reverting neuronal nuclear and soma size alterations in NSC-34 cells exposed to cerebrospinal fluid from amyotrophic lateral sclerosis patients. <i>Clinical Neurology and Neurosurgery</i> , 2014, 120, 1-5.	0.6	9
67	Clinical Significance of a Novel Knee Joint Stability Assessment System for Evaluating Anterior Cruciate Ligament Deficient Knees. <i>Orthopaedic Surgery</i> , 2016, 8, 75-80.	0.7	9
68	Preparation and properties of poly(ϵ -caprolactone)/bioactive glass nanofibre membranes for skin tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2018, 33, 195-209.	0.8	9
69	Management of Unique Basilar Invagination Combined with C1 Prolapsing into the Foramen Magnum in Children: Report of 2 Cases. <i>World Neurosurgery</i> , 2019, 127, 92-96.	0.7	9
70	Highly effective rheumatoid arthritis therapy by peptide-promoted nanomodification of mesenchymal stem cells. <i>Biomaterials</i> , 2022, 283, 121474.	5.7	9
71	Comparative use of the computer-aided angiography and rapid prototyping technology versus conventional imaging in the management of the Tile C pelvic fractures. <i>International Orthopaedics</i> , 2016, 40, 161-166.	0.9	8
72	Kinematic characteristics of anterior cruciate ligament deficient knees with concomitant meniscus deficiency during ascending stairs. <i>Journal of Sports Sciences</i> , 2017, 35, 402-409.	1.0	8

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73	Novel targeted puncture technique for percutaneous transforaminal endoscopic lumbar discectomy reduces X-ray exposure. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 2960-2968.	0.8	8
74	Kinematic Alterations After Anterior Cruciate Ligament Reconstruction via Transtibial Techniques With Medial Meniscal Repair Versus Partial Medial Meniscectomy. <i>American Journal of Sports Medicine</i> , 2021, 49, 3293-3301.	1.9	8
75	Mild microwave ablation combined with HSP90 and TGF β 1 inhibitors enhances the therapeutic effect on osteosarcoma. <i>Molecular Medicine Reports</i> , 2020, 22, 906-914.	1.1	8
76	The flavonoid luteolin enhances doxorubicin-induced autophagy in human osteosarcoma U2OS cells. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 15190-7.	1.3	8
77	Development of Legs Rehabilitation Exercise System Driven by Pneumatic Muscle Actuator. , 2008, , .		7
78	Surgical Outcome and Prognostic Analysis of Transoral Atlantoaxial Reduction Plate System for Basilar Invagination. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1729-1734.	1.4	7
79	Extracorporeal Shock Wave Therapy Promotes Osteogenic Differentiation in a Rabbit Osteoporosis Model. <i>Frontiers in Endocrinology</i> , 2021, 12, 627718.	1.5	7
80	In vivo studies on Mg-1Sc alloy for orthopedic application: A 5-months evaluation in rabbits. <i>Materials Letters</i> , 2020, 262, 127130.	1.3	6
81	Anterior reduction and C1-ring osteosynthesis with Jefferson-fracture reduction plate (JeRP) via transoral approach for unstable atlas fractures. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 745.	0.8	6
82	Influence of Surface Chemistry on the Biological Feature of Giant Cell Tumor of Bone Stromal Cells <I>In Vitro</I>. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 554-563.	0.0	6
83	Stability of tibial defect reconstruction with fibular graft and unilateral external fixation: a finite element study. <i>International Journal of Clinical and Experimental Medicine</i> , 2014, 7, 76-83.	1.3	6
84	Developing a novel calcium magnesium silicate/graphene oxide incorporated silk fibroin porous scaffold with enhanced osteogenesis, angiogenesis and inhibited osteoclastogenesis. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035012.	1.7	6
85	Osteogenic activity of silver-loaded coral hydroxyapatite and its investigation in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 801-812.	1.7	5
86	Effect of recombinant human bone morphogenetic protein delivered by chitosan microspheres on ectopic osteogenesis in rats. <i>Experimental and Therapeutic Medicine</i> , 2019, 17, 3891-3898.	0.8	5
87	Preparation of Coralline Hydroxyapatite Implant with Recombinant Human Bone Morphogenetic Protein<sup>2</sup>-Loaded Chitosan Nanospheres and Its Osteogenic Efficacy. <i>Orthopaedic Surgery</i> , 2020, 12, 1947-1953.	0.7	5
88	Motion-preserving treatment of unstable atlas fracture: transoral anterior C1-ring osteosynthesis using a laminoplasty plate. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 538.	0.8	5
89	Biodegradable mesoporous manganese carbonate nanocomposites for LED light-driven cancer therapy via enhancing photodynamic therapy and attenuating survivin expression. <i>Journal of Nanobiotechnology</i> , 2021, 19, 310.	4.2	5
90	Incidence and management of surgical site infection in the cervical spine following a transoral approach. <i>International Orthopaedics</i> , 2022, 46, 2329-2337.	0.9	5

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91	Self-assembled monolayers of alkanethiolates on surface chemistry groups in osteosarcoma cells. <i>Molecular Medicine Reports</i> , 2015, 11, 975-981.	1.1	4
92	Implantation of the anterior atlantoaxial lateral mass intervertebral cage using the transoral approach. <i>Journal of Orthopaedic Science</i> , 2017, 22, 630-634.	0.5	4
93	Kinematic characteristics of lumbar spinous processes during axial rotation in patients with lumbar degenerative disc disease lateral lumbar interbody fusion and intervention. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 141.	0.8	4
94	Genetic correction of adipose tissue-derived mesenchymal stem cells mediated by TALEN targeting the GDF5 gene. <i>International Journal of Molecular Medicine</i> , 2018, 41, 2397-2405.	1.8	4
95	A novel bone cement injector augments Chinese osteoporotic lumbar pedicle screw channel: a biomechanical investigation. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 353.	0.8	4
96	Finite Element Analysis of Horizontal Screw-Screw Crosslink Used in C1-C2 Pedicle Screw-Rod Fixation. <i>Medical Science Monitor</i> , 2021, 27, e932026.	0.5	3
97	Bone marrow osteoma of the tibia: A case report. <i>Oncology Letters</i> , 2014, 8, 2776-2778.	0.8	2
98	Usefulness of a Three-dimensional 3D-Printed Model in the Treatment of Irreducible Atlantoaxial Dislocation with Transoral Atlantoaxial Reduction Plate. <i>Orthopaedic Surgery</i> , 2021, 13, 799-811.	0.7	2
99	Storage and release of rare earth elements in microsphere-based scaffolds for enhancing osteogenesis. <i>Scientific Reports</i> , 2022, 12, 6383.	1.6	2
100	A unique procedure of joined transoral and retropharyngeal high cervical approach (JTRC) without mandibulectomy for treating upper cervical neoplasm involving both C2 and C3. <i>European Spine Journal</i> , 2017, 26, 1090-1095.	1.0	1
101	Cuff-leak test combined with interventional bronchoscopy benefits early extubation for patients who received tarp surgery. <i>European Spine Journal</i> , 2017, 26, 840-846.	1.0	0
102	Meta-Analysis of Anterior Surgery versus Posterior Surgery for Thoracolumbar Burst Fractures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016, 13, 678-687.	0.4	0
103	The effect of anteromedial support plate with three cannulated screws in the treatment of Pauwels type III femoral neck fracture in young adults. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, , 1.	0.8	0