Lihai Zhang

List of Publications by Year
in descending order

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51 papers	1,042 citations	471509 17 h-index	454955 30 g-index
55 all docs	55 docs citations	55 times ranked	1375 citing authors

#	Article	IF	Citations
1	Autophagy Reduces Neuronal Damage and Promotes Locomotor Recovery via Inhibition of Apoptosis After Spinal Cord Injury in Rats. Molecular Neurobiology, 2014, 49, 276-287.	4.0	146
2	Proximal femoral nail antirotation versus hemiarthroplasty: A study for the treatment of intertrochanteric fractures. Injury, 2012, 43, 876-881.	1.7	81
3	Advancing computer-assisted orthopaedic surgery using a hexapod device for closed diaphyseal fracture reduction. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 348-359.	2.3	52
4	Novel 3D hexapod computerâ€assisted orthopaedic surgery system for closed diaphyseal fracture reduction. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 17-24.	2.3	49
5	Biomechanical study of four kinds of percutaneous screw fixation in two types of unilateral sacroiliac joint dislocation: A finite element analysis. Injury, 2014, 45, 2055-2059.	1.7	49
6	In Vivo Two-Photon Imaging of Axonal Dieback, Blood Flow and Calcium Influx withMethylprednisolone Therapy after Spinal Cord Injury. Scientific Reports, 2015, 5, 9691.	3.3	48
7	Preparation and Characterization of Collagenâ€“Hydroxyapatite Composite Used for Bone Tissue Engineering Scaffold. Artificial Cells, Blood Substitutes, and Biotechnology, 2003, 31, 435-448.	0.9	38
8	<scp>I</scp>nhibitory effect of superâ€hydrophobicity on silver release and antibacterial properties of superâ€hydrophobic Ag/TiO₂ nanotubes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1004-1012.	3.4	34
9	Synthesis and characterization of collagenâ€chitosanâ€hydroxyapatite artificial bone matrix. Journal of Biomedical Materials Research - Part A, 2008, 86A, 244-252.	4.0	33
10	Effect of Chitosan as a Dispersant on Collagenâ€“Hydroxyapatite Composite Matrices. Tissue Engineering - Part C: Methods, 2010, 16, 71-79.	2.1	26
11	A femur fracture reduction method based on anatomy of the contralateral side. Computers in Biology and Medicine, 2013, 43, 840-846.	7.0	25
12	Reduction and functional outcome of open reduction plate fixation versus minimally invasive reduction with percutaneous screw fixation for displaced calcaneus fracture: a retrospective study. Journal of Orthopaedic Surgery and Research, 2019, 14, 124.	2.3	25
13	Evaluation of modifying collagen matrix with RGD peptide through periodate oxidation. Journal of Biomedical Materials Research - Part A, 2005, 73A, 468-475.	4.0	24
14	Preoperative trajectory planning for closed reduction of long-bone diaphyseal fracture using a computer-assisted reduction system. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 58-66.	2.3	23
15	Anemia on Admission Is an Independent Predictor of Long-Term Mortality in Hip Fracture Population. Medicine (United States), 2016, 95, e2469.	1.0	23
16	Accuracy Analysis of a Robot System for Closed Diaphyseal Fracture Reduction. International Journal of Advanced Robotic Systems, 2014, 11, 169.	2.1	20
17	A sequential delivery system employing the synergism of EPO and NGF promotes sciatic nerve repair. Colloids and Surfaces B: Biointerfaces, 2017, 159, 327-336.	5.0	20
18	Improvement in angiogenesis and osteogenesis with modified cannulated screws combined with VEGF/PLGA/fibrin glue in femoral neck fractures. Journal of Materials Science: Materials in Medicine, 2014, 25, 1165-1172.	3.6	19

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19	Localized and Sustained Delivery of Erythropoietin from PLGA Microspheres Promotes Functional Recovery and Nerve Regeneration in Peripheral Nerve Injury. BioMed Research International, 2015, 2015, 1-7.	1.9	17
20	Double locking plate fixation for femoral shaft nonunion. European Journal of Orthopaedic Surgery and Traumatology, 2016, 26, 501-507.	1.4	17
21	Validation of the simplified Chinese (Mainland) version of the Disability of the Arm, Shoulder, and Hand questionnaire (DASH-CHNPLAGH). Journal of Orthopaedic Surgery and Research, 2015, 10, 76.	2.3	16
22	Analysis of the independent risk factors of neurologic deficit after thoracolumbar burst fracture. Journal of Orthopaedic Surgery and Research, 2016, 11, 128.	2.3	16
23	Effect of Dexmedetomidine in Preventing Postoperative Side Effects for Laparoscopic Surgery. Medicine (United States), 2016, 95, e2927.	1.0	15
24	THE MODIFICATION OF SCAFFOLD MATERIAL IN BUILDING ARTIFICIAL DERMIS. Artificial Cells, Blood Substitutes, and Biotechnology, 2002, 30, 319-332.	0.9	14
25	Long-Term Follow-Up of the Repair of the Multiple-Branch Facial Nerve Defect Using Acellular Nerve Allograft. Journal of Oral and Maxillofacial Surgery, 2016, 74, 218.e1-218.e11.	1.2	14
26	Using the Starr Frame and Da Vinci surgery system for pelvic fracture and sacral nerve injury. Journal of Orthopaedic Surgery and Research, 2019, 14, 29.	2.3	14
27	Repair of Whole Rabbit Facial Nerve Defects Using Facial Nerve Allografts. Journal of Oral and Maxillofacial Surgery, 2010, 68, 2196-2206.	1.2	13
28	Comparison of anterograde versus retrograde percutaneous screw fixation of anterior column acetabular fractures. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 635-639.	2.8	13
29	Synergistic Effects of BMP9 and miR-548d-5p on Promoting Osteogenic Differentiation of Mesenchymal Stem Cells. BioMed Research International, 2015, 2015, 1-9.	1.9	12
30	Relationship between fracture-relevant parameters of thoracolumbar burst fractures and the reduction of intra-canal fracture fragment. Journal of Orthopaedic Surgery and Research, 2015, 10, 131.	2.3	12
31	Robotâ€assisted percutaneous vertebroplasty under local anaesthesia for osteoporotic vertebral compression fractures: a retrospective, clinical, nonâ€randomized, controlled study. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2216.	2.3	12
32	Biomechanical study of transsacral-transiliac screw fixation versus lumbopelvic fixation and bilateral triangular fixation for â€œHâ€• and â€œUâ€•type sacrum fractures with traumatic spondylopelvic dissociation: a finite element analysis study. Journal of Orthopaedic Surgery and Research, 2021, 16, 428.	2.3	12
33	Effect of chondroitin sulfate modification on rhBMPâ€2 release kinetics from collagen delivery system. Journal of Biomedical Materials Research - Part A, 2010, 92A, 693-701.	4.0	11
34	Chitooligosaccharide Inhibits Scar Formation and Enhances Functional Recovery in a Mouse Model of Sciatic Nerve Injury. Molecular Neurobiology, 2016, 53, 2249-2257.	4.0	11
35	Three-column osteotomy surgery versus standard surgical management for the correction of adult spinal deformity: a cohort study. Journal of Orthopaedic Surgery and Research, 2015, 10, 23.	2.3	9
36	Percutaneous Anterior Column Fixation for Acetabulum Fractures, Does It Have to Be Difficult?â€”The New Axial Pedicle View of the Anterior Column for Percutaneous Fixation. Journal of Orthopaedic Trauma, 2016, 30, e30-e35.	1.4	9

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37	Osteoporotic vertebral compression fracture accompanied with thoracolumbar fascial injury: risk factors and the association with residual pain after percutaneous vertebroplasty. BMC Musculoskeletal Disorders, 2022, 23, 343.	1.9	9
38	Evaluation of RGD Modification on Collagen Matrix. Artificial Cells, Blood Substitutes, and Biotechnology, 2006, 34, 293-303.	0.9	8
39	A Study of Femoral Neck Fracture Repair Using a Recombinant Human Bone Morphogenetic Protein-2 Directional Release System. Tissue Engineering - Part A, 2009, 15, 3971-3978.	3.1	8
40	Two-Photon-Excited Fluorescence Microscopy as a Tool to Investigate the Efficacy of Methylprednisolone in a Mouse Spinal Cord Injury Model. Spine, 2014, 39, E493-E499.	2.0	8
41	Constraint of musculoskeletal tissue and path planning of robotâ€assisted fracture reduction with collision avoidance. International Journal of Medical Robotics and Computer Assisted Surgery, 2022, 18, e2361.	2.3	8
42	PHYSICAL SYMMETRY AND VIRTUAL PLANE-BASED REDUCTION REFERENCE: A PRELIMINARY STUDY FOR ROBOT-ASSISTED PELVIC FRACTURE REDUCTION. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640014.	0.7	6
43	An Effective and Feasible Method, â€œHammering Technique,â€•for Percutaneous Fixation of Anterior Column Acetabular Fracture. BioMed Research International, 2016, 2016, 1-6.	1.9	5
44	Study on Modification of Collagen with Chondroitin Sulfate on the Microcosmic Level. Artificial Cells, Blood Substitutes, and Biotechnology, 2005, 33, 215-226.	0.9	3
45	Earthquake generated proximal tibial nerve compression treated by surgery. International Orthopaedics, 2013, 37, 1561-1566.	1.9	3
46	Modified minimally invasive approach and intra-osseous portal for three-part proximal humeral fractures: a comparative study. Journal of Orthopaedic Surgery and Research, 2018, 13, 24.	2.3	3
47	Application of Spinal Robotic Navigation Technology to Minimally Invasive Percutaneous Treatment of Spinal Fractures: A Clinical, Nonâ€Randomized, Controlled Study. Orthopaedic Surgery, 2021, 13, 1236-1243.	1.8	3
48	Radiological measurement of pelvic fractures using a pelvic deformity measurement software program. Journal of Orthopaedic Surgery and Research, 2020, 15, 37.	2.3	2
49	Inhibition of the Osteoclast Activity with the Application of Recombinant Murine RANK Protein. Artificial Cells, Blood Substitutes, and Biotechnology, 2010, 38, 169-177.	0.9	1
50	Establishment of fluoroscopy views and standardized procedure of percutaneous magic screw insertion for acetabulum fractures. BMC Musculoskeletal Disorders, 2018, 19, 332.	1.9	1
51	Application of binocular visual navigation technique in diaphyseal fracture reduction. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2082.	2.3	1