Xia Guo

List of Publications by Year in Descending Order

80 papers	2,706 citations	28 h-index	51 g-index
84 ext. papers	3,091 ext. citations	4.1 avg, IF	4.47 L-index

#	Paper	IF	Citations
80	Implantable Electrical Stimulation at Dorsal Root Ganglions Accelerates Osteoporotic Fracture Healing via Calcitonin Gene-Related Peptide. *Advanced Science*, **2021**, 9, e2103005	13.6	5
79	Application of ultrasound accelerates the decalcification process of bone matrix without affecting histological and immunohistochemical analysis. *Journal of Orthopaedic Translation*, **2019**, 17, 112-120	4.2	7
78	Self-fitting shape memory polymer foam inducing bone regeneration: A rabbit femoral defect study. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 936-945	4	40
77	Diversity of activity participation determines bone mineral content in the lower limbs of pre-pubertal children with developmental coordination disorder. *Osteoporosis International*, **2018**, 29, 917-925	5.3	4
76	Stratified body shape-driven sizing system via three-dimensional digital anthropometry for compression textiles of lower extremities. *Textile Reseach Journal*, **2018**, 88, 2055-2075	1.7	6
75	Adapted Taekwondo Training for Prepubertal Children with Developmental Coordination Disorder: A Randomized, Controlled Trial. *Scientific Reports*, **2018**, 8, 10330	4.9	3
74	A critical review on compression textiles for compression therapy: Textile-based compression interventions for chronic venous insufficiency. *Textile Reseach Journal*, **2017**, 87, 1121-1141	1.7	34
73	Highly water-absorbing silk yarn with interpenetrating network via in situ polymerization. *International Journal of Biological Macromolecules*, **2017**, 95, 826-832	7.9	9
72	Effect of capsaicin-sensitive sensory neurons on bone architecture and mechanical properties in the rat hindlimb suspension model. *Journal of Orthopaedic Translation*, **2017**, 10, 12-17	4.2	5
71	Response of Rat Tibia to Prolonged Unloading Under the Influence of Electrical Stimulation at the Dorsal Root Ganglion. *Neuromodulation*, **2017**, 20, 284-289	3.1	3
70	Topographical Control of Preosteoblast Culture by Shape Memory Foams . *Advanced Engineering Materials*, **2017**, 19, 1600343	3.5	9
69	Implant-derived magnesium induces local neuronal production of CGRP to improve bone-fracture healing in rats. *Nature Medicine*, **2016**, 22, 1160-1169	50.5	410
68	Fabrication and characterization of gecko-inspired dry adhesion, superhydrophobicity and wet self-cleaning surfaces. *Journal of Bionic Engineering*, **2016**, 13, 132-142	2.7	18
67	Task-Specific Balance Training Improves the Sensory Organisation of Balance Control in Children with Developmental Coordination Disorder: A Randomised Controlled Trial. *Scientific Reports*, **2016**, 6, 20945	4.9	19
66	A Novel Balance Training Program for Children With Developmental Coordination Disorder: A Randomized Controlled Trial. *Medicine (United States)*, **2016**, 95, e3492	1.8	7
65	Electrical stimulation at the dorsal root ganglion preserves trabecular bone mass and microarchitecture of the tibia in hindlimb-unloaded rats. *Osteoporosis International*, **2015**, 26, 481-8	5.3	11
64	Deficits in Lower Limb Muscle Reflex Contraction Latency and Peak Force Are Associated With Impairments in Postural Control and Gross Motor Skills of Children With Developmental Coordination Disorder: A Cross-Sectional Study. *Medicine (United States)*, **2015**, 94, e1785	1.8	20

63	Effects of Ving Tsun Chinese martial art training on musculoskeletal health, balance performance, and self-efficacy in community-dwelling older adults. *Journal of Physical Therapy Science*, **2015**, 27, 667-72	1	10
62	Core Muscle Activity during TRX Suspension Exercises with and without Kinesiology Taping in Adults with Chronic Low Back Pain: Implications for Rehabilitation. *Evidence-based Complementary and Alternative Medicine*, **2015**, 2015, 910168	2.3	12
61	Lifelong bound feet in China: a quantitative ultrasound and lifestyle questionnaire study in postmenopausal women. *BMJ Open*, **2015**, 5, e006521	3	5
60	Dorsal root ganglion electrical stimulation promoted intertransverse process spinal fusion without decortications and bone grafting: a proof-of-concept study. *Spine Journal*, **2014**, 14, 2472-8	4	4
59	Musculoskeletal strength, balance performance, and self-efficacy in elderly ving tsun chinese martial art practitioners: implications for fall prevention. *Evidence-based Complementary and Alternative Medicine*, **2014**, 2014, 402314	2.3	6
58	Wheelchair martial arts practitioners have similar bone strength, sitting balance and self-esteem to healthy individuals. *Physical Therapy Rehabilitation Science*, **2014**, 3, 27-32	0.5	
57	Elder Chinese Martial Art Practitioners Have Higher Radial Bone Strength, Hand-Grip Strength, and Better Standing Balance Control. *ISRN Rehabilitation*, **2013**, 2013, 1-6		9
56	Activity participation intensity is associated with skeletal development in pre-pubertal children with developmental coordination disorder. *Research in Developmental Disabilities*, **2012**, 33, 1898-904	2.7	12
55	The role of the sensory nerve response in ultrasound accelerated fracture repair. *Journal of Bone and Joint Surgery: British Volume*, **2012**, 94, 1433-8		8
54	Effect of laser acupuncture on disuse osteoarthritis: an ultrasound biomicroscopic study of patellar articular cartilage in rats. *Evidence-based Complementary and Alternative Medicine*, **2012**, 2012, 838420	2.3	2
53	Programmable and implantable neurostimulator with novel stimulus waveforms for rat models. *Electronics Letters*, **2012**, 48, 1035-1036	1.1	6
52	Ultrasound evaluation of site-specific effect of simulated microgravity on articular cartilage. *Ultrasound in Medicine and Biology*, **2010**, 36, 1089-97	3.5	10
51	Laser acupuncture and prevention of bone loss in tail-suspended rats. *Aviation, Space, and Environmental Medicine*, **2010**, 81, 914-8		4
50	Involvement of calcitonin gene-related peptide innervation in the promoting effect of low-intensity pulsed ultrasound on spinal fusion without decortication. *Spine*, **2010**, 35, E1539-45	3.3	11
49	Laser surface microdrilling of Ti and laser gas nitrided Ti for enhancing fixation of dental implants. *Optics and Lasers in Engineering*, **2010**, 48, 583-588	4.6	20
48	Laser surface micro-drilling and texturing of metals for improvement of adhesion joint strength. *Applied Surface Science*, **2010**, 256, 3166-3169	6.7	32
47	Temporal and spatial CGRP innervation in recombinant human bone morphogenetic protein induced spinal fusion in rabbits. *Spine*, **2009**, 34, 2363-8	3.3	12
46	Relative shortening and functional tethering of spinal cord in adolescent scoliosis - Result of asynchronous neuro-osseous growth, summary of an electronic focus group debate of the IBSE. *Scoliosis*, **2008**, 3, 8		43

45	Progressive trypsin digestion and serum inhibition in articular cartilage monitored using high-frequency ultrasound in situ. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2169-72	0.9	1
44	Altered osmotic swelling behavior of proteoglycan-depleted bovine articular cartilage using high frequency ultrasound. *Physics in Medicine and Biology*, **2008**, 53, 2537-52	3.8	16
43	Acceleration of Bone Decalcification by Ultrasound **2008**, 201-218		1
42	Fracture Nonunion Animal Model **2008**, 401-420		
41	Neurogenic Limb Disuse Animal Models **2008**, 477-493		1
40	Impaired dynamic balance control in adolescents with idiopathic scoliosis and abnormal somatosensory evoked potentials. *Journal of Pediatric Orthopaedics*, **2008**, 28, 846-9	2.4	46
39	Real-time ultrasonic assessment of progressive proteoglycan depletion in articular cartilage. *Ultrasound in Medicine and Biology*, **2008**, 34, 1085-92	3.5	24
38	Bone Densitometries in Assessing Bone Mineral and Structural Profiles in Patients with Adolescent Idiopathic Scoliosis **2007**, 307-322		
37	Pulsed ultrasound treatment accelerates the repair of Achilles tendon rupture in rats. *Journal of Orthopaedic Research*, **2006**, 24, 193-201	3.8	49
36	Low-intensity pulsed ultrasound accelerates bone-tendon junction healing: a partial patellectomy model in rabbits. *American Journal of Sports Medicine*, **2006**, 34, 1287-96	6.8	73
35	A relook into the association of the estrogen receptor [alpha] gene (PvuII, XbaI) and adolescent idiopathic scoliosis: a study of 540 Chinese cases. *Spine*, **2006**, 31, 2463-8	3.3	50
34	Regional variations in microstructural properties of vertebral trabeculae with structural groups. *Spine*, **2006**, 31, 24-32	3.3	28
33	Relative shortening and functional tethering of spinal cord in adolescent idiopathic scoliosis?: study with multiplanar reformat magnetic resonance imaging and somatosensory evoked potential. *Spine* , **2006**, 31, E19-25	3.3	71
32	Generalized osteopenia in adolescent idiopathic scoliosis--association with abnormal pubertal growth, bone turnover, and calcium intake?. *Spine*, **2006**, 31, 330-8	3.3	67
31	Balance control in adolescents with idiopathic scoliosis and disturbed somatosensory function. *Spine*, **2006**, 31, E437-40	3.3	96
30	In situ formation of a TiN/Ti metal matrix composite gradient coating on NiTi by laser cladding and nitriding. *Surface and Coatings Technology*, **2006**, 200, 4961-4966	4.4	68
29	Laser fabrication of porous surface layer on NiTi shape memory alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 404, 173-178	5.3	20
28	Generalized low bone mass of girls with adolescent idiopathic scoliosis is related to inadequate calcium intake and weight bearing physical activity in peripubertal period. *Osteoporosis International*, **2005**, 16, 1024-35	5.3	65

27	Association of osteopenia with curve severity in adolescent idiopathic scoliosis: a study of 919 girls. *Osteoporosis International*, **2005**, 16, 1924-32	5.3	79
26	Relative anterior spinal overgrowth in adolescent idiopathic scoliosis--result of disproportionate endochondral-membranous bone growth? Summary of an electronic focus group debate of the IBSE. *European Spine Journal*, **2005**, 14, 862-73	2.7	54
25	Osteopenia: a new prognostic factor of curve progression in adolescent idiopathic scoliosis. *Journal of Bone and Joint Surgery - Series A*, **2005**, 87, 2709-2716	5.6	84
24	Temporal and Spatial Expression Pattern of VEGF and VEGF Receptor in the Posterior Spinal Fusion with Allograft. *Key Engineering Materials*, **2005**, 288-289, 491-494	0.4	4
23	OSTEOPENIA. *Journal of Bone and Joint Surgery - Series A*, **2005**, 87, 2709-2716	5.6	1
22	Evaluation of the expression of collagen type I in porous calcium phosphate ceramics implanted in an extra-osseous site. *Biomaterials*, **2004**, 25, 659-67	15.6	29
21	Comparison of single and multiple applications of GaAlAs laser on rat medial collateral ligament repair. *Lasers in Surgery and Medicine*, **2004**, 34, 285-9	3.6	26
20	Ultrastructural comparison of medial collateral ligament repair after single or multiple applications of GaAlAs laser in rats. *Lasers in Surgery and Medicine*, **2004**, 35, 317-23	3.6	16
19	. *Spine*, **2003**, 28, 815-818	3.3	3
18	Redefining the Magnetic Resonance Imaging Reference Level for the Cerebellar Tonsil. *Spine*, **2003**, 28, 815-818	3.3	11
17	Abnormal peri-pubertal anthropometric measurements and growth pattern in adolescent idiopathic scoliosis: a study of 598 patients. *Spine*, **2003**, 28, 2152-7	3.3	114
16	Relative anterior spinal overgrowth in adolescent idiopathic scoliosis. Results of disproportionate endochondral-membranous bone growth. *Journal of Bone and Joint Surgery: British Volume*, **2003**, 85, 1026-31		149
15	Redefining the magnetic resonance imaging reference level for the cerebellar tonsil: a study of 170 adolescents with normal versus idiopathic scoliosis. *Spine*, **2003**, 28, 815-8	3.3	16
14	Inadequate calcium intake is a significant determinant on generalised osteopenia in Hong Kong Chinese adolescents with idiopathic scoliosis **2003**, 32, 568-72		2
13	Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication. *Journal of Orthopaedic Research*, **2002**, 20, 740-6	3.8	30
12	Histological and ultrastructural analysis of heterotopic osteogenesis in porous calcium phosphate ceramics. *Journal of Materials Science Letters*, **2002**, 21, 153-155		6
11	How does recombinant human bone morphogenetic protein-4 enhance posterior spinal fusion?. *Spine*, **2002**, 27, 467-74	3.3	22
10	Staining intensity of individual osteons correlated with elastic properties and degrees of mineralization. *Journal of Bone and Mineral Metabolism*, **2001**, 19, 359-64	2.9	15

9	The Ultrastructural Analysis of Heterotopic Osteogenesis in Porous Biphasic Calcium Phophate Ceramics. *Key Engineering Materials*, **2001**, 218-220, 613-616	0.4	1
8	Osteopenia in adolescent idiopathic scoliosis: a histomorphometric study. *Spine*, **2001**, 26, E19-23	3.3	63
7	The effect of vertebral rotation of the lumbar spine on dual energy X-ray absorptiometry measurements: observational study. *Hong Kong Medical Journal*, **2001**, 7, 241-5	0.7	20
6	Generalized low areal and volumetric bone mineral density in adolescent idiopathic scoliosis. *Journal of Bone and Mineral Research*, **2000**, 15, 1587-95	6.3	132
5	MRI evaluation of multifidus muscles in adolescent idiopathic scoliosis. *Pediatric Radiology*, **1999**, 29, 360-3	2.8	41
4	Correlation between curve severity, somatosensory evoked potentials, and magnetic resonance imaging in adolescent idiopathic scoliosis. *Spine*, **1999**, 24, 1679-84	3.3	75
3	Persistent osteopenia in adolescent idiopathic scoliosis. A longitudinal follow up study. *Spine*, **1999**, 24, 1218-22	3.3	106
2	Posterior tibial nerve somatosensory cortical evoked potentials in adolescent idiopathic scoliosis. *Spine*, **1998**, 23, 332-7	3.3	30
1	Osteopenia in adolescent idiopathic scoliosis. A primary problem or secondary to the spinal deformity?. *Spine*, **1997**, 22, 1716-21	3.3	83