

# Xia Guo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Implant-derived magnesium induces local neuronal production of CGRP to improve bone-fracture healing in rats. <i>Nature Medicine</i> , <b>2016</b> , 22, 1160-1169	50.5	410
79	Relative anterior spinal overgrowth in adolescent idiopathic scoliosis. Results of disproportionate endochondral-membranous bone growth. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>2003</b> , 85, 1026-31		149
78	Generalized low areal and volumetric bone mineral density in adolescent idiopathic scoliosis. <i>Journal of Bone and Mineral Research</i> , <b>2000</b> , 15, 1587-95	6.3	132
77	Abnormal peri-pubertal anthropometric measurements and growth pattern in adolescent idiopathic scoliosis: a study of 598 patients. <i>Spine</i> , <b>2003</b> , 28, 2152-7	3.3	114
76	Persistent osteopenia in adolescent idiopathic scoliosis. A longitudinal follow up study. <i>Spine</i> , <b>1999</b> , 24, 1218-22	3.3	106
75	Balance control in adolescents with idiopathic scoliosis and disturbed somatosensory function. <i>Spine</i> , <b>2006</b> , 31, E437-40	3.3	96
74	Osteopenia: a new prognostic factor of curve progression in adolescent idiopathic scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2005</b> , 87, 2709-2716	5.6	84
73	Osteopenia in adolescent idiopathic scoliosis. A primary problem or secondary to the spinal deformity?. <i>Spine</i> , <b>1997</b> , 22, 1716-21	3.3	83
72	Association of osteopenia with curve severity in adolescent idiopathic scoliosis: a study of 919 girls. <i>Osteoporosis International</i> , <b>2005</b> , 16, 1924-32	5.3	79
71	Correlation between curve severity, somatosensory evoked potentials, and magnetic resonance imaging in adolescent idiopathic scoliosis. <i>Spine</i> , <b>1999</b> , 24, 1679-84	3.3	75
70	Low-intensity pulsed ultrasound accelerates bone-tendon junction healing: a partial patellectomy model in rabbits. <i>American Journal of Sports Medicine</i> , <b>2006</b> , 34, 1287-96	6.8	73
69	Relative shortening and functional tethering of spinal cord in adolescent idiopathic scoliosis?: study with multiplanar reformat magnetic resonance imaging and somatosensory evoked potential. <i>Spine</i> , <b>2006</b> , 31, E19-25	3.3	71
68	In situ formation of a TiN/Ti metal matrix composite gradient coating on NiTi by laser cladding and nitriding. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 4961-4966	4.4	68
67	Generalized osteopenia in adolescent idiopathic scoliosis--association with abnormal pubertal growth, bone turnover, and calcium intake?. <i>Spine</i> , <b>2006</b> , 31, 330-8	3.3	67
66	Generalized low bone mass of girls with adolescent idiopathic scoliosis is related to inadequate calcium intake and weight bearing physical activity in peripubertal period. <i>Osteoporosis International</i> , <b>2005</b> , 16, 1024-35	5.3	65
65	Osteopenia in adolescent idiopathic scoliosis: a histomorphometric study. <i>Spine</i> , <b>2001</b> , 26, E19-23	3.3	63
64	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. <i>European Spine Journal</i> , <b>2005</b> , 14, 862-73	2.7	54

63	A relook into the association of the estrogen receptor [alpha] gene (PvuII, XbaI) and adolescent idiopathic scoliosis: a study of 540 Chinese cases. <i>Spine</i> , <b>2006</b> , 31, 2463-8	3.3	50
62	Pulsed ultrasound treatment accelerates the repair of Achilles tendon rupture in rats. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 193-201	3.8	49
61	Impaired dynamic balance control in adolescents with idiopathic scoliosis and abnormal somatosensory evoked potentials. <i>Journal of Pediatric Orthopaedics</i> , <b>2008</b> , 28, 846-9	2.4	46
60	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. <i>Scoliosis</i> , <b>2008</b> , 3, 8		43
59	MRI evaluation of multifidus muscles in adolescent idiopathic scoliosis. <i>Pediatric Radiology</i> , <b>1999</b> , 29, 360-3	2.8	41
58	Self-fitting shape memory polymer foam inducing bone regeneration: A rabbit femoral defect study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2018</b> , 1862, 936-945	4	40
57	A critical review on compression textiles for compression therapy: Textile-based compression interventions for chronic venous insufficiency. <i>Textile Reseach Journal</i> , <b>2017</b> , 87, 1121-1141	1.7	34
56	Laser surface micro-drilling and texturing of metals for improvement of adhesion joint strength. <i>Applied Surface Science</i> , <b>2010</b> , 256, 3166-3169	6.7	32
55	Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication. <i>Journal of Orthopaedic Research</i> , <b>2002</b> , 20, 740-6	3.8	30
54	Posterior tibial nerve somatosensory cortical evoked potentials in adolescent idiopathic scoliosis. <i>Spine</i> , <b>1998</b> , 23, 332-7	3.3	30
53	Evaluation of the expression of collagen type I in porous calcium phosphate ceramics implanted in an extra-osseous site. <i>Biomaterials</i> , <b>2004</b> , 25, 659-67	15.6	29
52	Regional variations in microstructural properties of vertebral trabeculae with structural groups. <i>Spine</i> , <b>2006</b> , 31, 24-32	3.3	28
51	Comparison of single and multiple applications of GaAlAs laser on rat medial collateral ligament repair. <i>Lasers in Surgery and Medicine</i> , <b>2004</b> , 34, 285-9	3.6	26
50	Real-time ultrasonic assessment of progressive proteoglycan depletion in articular cartilage. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1085-92	3.5	24
49	How does recombinant human bone morphogenetic protein-4 enhance posterior spinal fusion?. <i>Spine</i> , <b>2002</b> , 27, 467-74	3.3	22
48	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. <i>Medicine (United States)</i> , <b>2015</b> , 94, e1785	1.8	20
47	Laser surface microdrilling of Ti and laser gas nitrided Ti for enhancing fixation of dental implants. <i>Optics and Lasers in Engineering</i> , <b>2010</b> , 48, 583-588	4.6	20
46	Laser fabrication of porous surface layer on NiTi shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 404, 173-178	5.3	20

45	The effect of vertebral rotation of the lumbar spine on dual energy X-ray absorptiometry measurements: observational study. <i>Hong Kong Medical Journal</i> , <b>2001</b> , 7, 241-5	0.7	20
44	Task-Specific Balance Training Improves the Sensory Organisation of Balance Control in Children with Developmental Coordination Disorder: A Randomised Controlled Trial. <i>Scientific Reports</i> , <b>2016</b> , 6, 20945	4.9	19
43	Fabrication and characterization of gecko-inspired dry adhesion, superhydrophobicity and wet self-cleaning surfaces. <i>Journal of Bionic Engineering</i> , <b>2016</b> , 13, 132-142	2.7	18
42	Altered osmotic swelling behavior of proteoglycan-depleted bovine articular cartilage using high frequency ultrasound. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 2537-52	3.8	16
41	Ultrastructural comparison of medial collateral ligament repair after single or multiple applications of GaAlAs laser in rats. <i>Lasers in Surgery and Medicine</i> , <b>2004</b> , 35, 317-23	3.6	16
40	Redefining the magnetic resonance imaging reference level for the cerebellar tonsil: a study of 170 adolescents with normal versus idiopathic scoliosis. <i>Spine</i> , <b>2003</b> , 28, 815-8	3.3	16
39	Staining intensity of individual osteons correlated with elastic properties and degrees of mineralization. <i>Journal of Bone and Mineral Metabolism</i> , <b>2001</b> , 19, 359-64	2.9	15
38	Core Muscle Activity during TRX Suspension Exercises with and without Kinesiology Taping in Adults with Chronic Low Back Pain: Implications for Rehabilitation. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2015</b> , 2015, 910168	2.3	12
37	Activity participation intensity is associated with skeletal development in pre-pubertal children with developmental coordination disorder. <i>Research in Developmental Disabilities</i> , <b>2012</b> , 33, 1898-904	2.7	12
36	Temporal and spatial CGRP innervation in recombinant human bone morphogenetic protein induced spinal fusion in rabbits. <i>Spine</i> , <b>2009</b> , 34, 2363-8	3.3	12
35	Electrical stimulation at the dorsal root ganglion preserves trabecular bone mass and microarchitecture of the tibia in hindlimb-unloaded rats. <i>Osteoporosis International</i> , <b>2015</b> , 26, 481-8	5.3	11
34	Involvement of calcitonin gene-related peptide innervation in the promoting effect of low-intensity pulsed ultrasound on spinal fusion without decortication. <i>Spine</i> , <b>2010</b> , 35, E1539-45	3.3	11
33	Redefining the Magnetic Resonance Imaging Reference Level for the Cerebellar Tonsil. <i>Spine</i> , <b>2003</b> , 28, 815-818	3.3	11
32	Effects of Ving Tsun Chinese martial art training on musculoskeletal health, balance performance, and self-efficacy in community-dwelling older adults. <i>Journal of Physical Therapy Science</i> , <b>2015</b> , 27, 667-72		10
31	Ultrasound evaluation of site-specific effect of simulated microgravity on articular cartilage. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 1089-97	3.5	10
30	Highly water-absorbing silk yarn with interpenetrating network via in situ polymerization. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 95, 826-832	7.9	9
29	Topographical Control of Preosteoblast Culture by Shape Memory Foams. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600343	3.5	9
28	Elder Chinese Martial Art Practitioners Have Higher Radial Bone Strength, Hand-Grip Strength, and Better Standing Balance Control. <i>ISRN Rehabilitation</i> , <b>2013</b> , 2013, 1-6		9

27	The role of the sensory nerve response in ultrasound accelerated fracture repair. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>2012</b> , 94, 1433-8		8
26	Application of ultrasound accelerates the decalcification process of bone matrix without affecting histological and immunohistochemical analysis. <i>Journal of Orthopaedic Translation</i> , <b>2019</b> , 17, 112-120	4.2	7
25	A Novel Balance Training Program for Children With Developmental Coordination Disorder: A Randomized Controlled Trial. <i>Medicine (United States)</i> , <b>2016</b> , 95, e3492	1.8	7
24	Stratified body shape-driven sizing system via three-dimensional digital anthropometry for compression textiles of lower extremities. <i>Textile Reseach Journal</i> , <b>2018</b> , 88, 2055-2075	1.7	6
23	Musculoskeletal strength, balance performance, and self-efficacy in elderly vinyasa yoga practitioners: implications for fall prevention. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2014</b> , 2014, 402314	2.3	6
22	Programmable and implantable neurostimulator with novel stimulus waveforms for rat models. <i>Electronics Letters</i> , <b>2012</b> , 48, 1035-1036	1.1	6
21	Histological and ultrastructural analysis of heterotopic osteogenesis in porous calcium phosphate ceramics. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 153-155		6
20	Effect of capsaicin-sensitive sensory neurons on bone architecture and mechanical properties in the rat hindlimb suspension model. <i>Journal of Orthopaedic Translation</i> , <b>2017</b> , 10, 12-17	4.2	5
19	Lifelong bound feet in China: a quantitative ultrasound and lifestyle questionnaire study in postmenopausal women. <i>BMJ Open</i> , <b>2015</b> , 5, e006521	3	5
18	Implantable Electrical Stimulation at Dorsal Root Ganglions Accelerates Osteoporotic Fracture Healing via Calcitonin Gene-Related Peptide. <i>Advanced Science</i> , <b>2021</b> , 9, e2103005	13.6	5
17	Diversity of activity participation determines bone mineral content in the lower limbs of pre-pubertal children with developmental coordination disorder. <i>Osteoporosis International</i> , <b>2018</b> , 29, 917-925	5.3	4
16	Dorsal root ganglion electrical stimulation promoted intertransverse process spinal fusion without decortications and bone grafting: a proof-of-concept study. <i>Spine Journal</i> , <b>2014</b> , 14, 2472-8	4	4
15	Laser acupuncture and prevention of bone loss in tail-suspended rats. <i>Aviation, Space, and Environmental Medicine</i> , <b>2010</b> , 81, 914-8		4
14	Temporal and Spatial Expression Pattern of VEGF and VEGF Receptor in the Posterior Spinal Fusion with Allograft. <i>Key Engineering Materials</i> , <b>2005</b> , 288-289, 491-494	0.4	4
13	Adapted Taekwondo Training for Prepubertal Children with Developmental Coordination Disorder: A Randomized, Controlled Trial. <i>Scientific Reports</i> , <b>2018</b> , 8, 10330	4.9	3
12	Response of Rat Tibia to Prolonged Unloading Under the Influence of Electrical Stimulation at the Dorsal Root Ganglion. <i>Neuromodulation</i> , <b>2017</b> , 20, 284-289	3.1	3
11	. <i>Spine</i> , <b>2003</b> , 28, 815-818	3.3	3
10	Effect of laser acupuncture on disuse osteoarthritis: an ultrasound biomicroscopic study of patellar articular cartilage in rats. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2012</b> , 2012, 838420	2.3	2

9	Inadequate calcium intake is a significant determinant on generalised osteopenia in Hong Kong Chinese adolescents with idiopathic scoliosis <b>2003</b> , 32, 568-72		2
8	Progressive trypsin digestion and serum inhibition in articular cartilage monitored using high-frequency ultrasound in situ. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 2169-72	0.9	1
7	Acceleration of Bone Decalcification by Ultrasound <b>2008</b> , 201-218		1
6	Neurogenic Limb Disuse Animal Models <b>2008</b> , 477-493		1
5	The Ultrastructural Analysis of Heterotopic Osteogenesis in Porous Biphasic Calcium Phosphate Ceramics. <i>Key Engineering Materials</i> , <b>2001</b> , 218-220, 613-616	0.4	1
4	OSTEOPENIA. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2005</b> , 87, 2709-2716	5.6	1
3	Fracture Nonunion Animal Model <b>2008</b> , 401-420		
2	Bone Densitometries in Assessing Bone Mineral and Structural Profiles in Patients with Adolescent Idiopathic Scoliosis <b>2007</b> , 307-322		
1	Wheelchair martial arts practitioners have similar bone strength, sitting balance and self-esteem to healthy individuals. <i>Physical Therapy Rehabilitation Science</i> , <b>2014</b> , 3, 27-32	0.5	