

Dongquan Shi

List of Publications by Year in descending order

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112
papers

4,022
citations

147726

31
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112
all docs

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docs citations

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times ranked

4543
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#	ARTICLE	IF	CITATIONS
1	A functional polymorphism in the 5' UTR of GDF5 is associated with susceptibility to osteoarthritis. <i>Nature Genetics</i> , 2007, 39, 529-533.	9.4	435
2	Photo-Cross-Linked Scaffold with Kartogenin-Encapsulated Nanoparticles for Cartilage Regeneration. <i>ACS Nano</i> , 2016, 10, 1292-1299.	7.3	215
3	Large-scale analysis of association between <i>GDF5</i> and <i>FRZB</i> variants and osteoarthritis of the hip, knee, and hand. <i>Arthritis and Rheumatism</i> , 2009, 60, 1710-1721.	6.7	181
4	A meta-analysis of European and Asian cohorts reveals a global role of a functional SNP in the 5' UTR of GDF5 with osteoarthritis susceptibility. <i>Human Molecular Genetics</i> , 2008, 17, 1497-1504.	1.4	156
5	Platelet-derived porous nanomotor for thrombus therapy. <i>Science Advances</i> , 2020, 6, eaaz9014.	4.7	140
6	Common variants in DVWA on chromosome 3p24.3 are associated with susceptibility to knee osteoarthritis. <i>Nature Genetics</i> , 2008, 40, 994-998.	9.4	134
7	Meta-analysis of genome-wide association studies confirms a susceptibility locus for knee osteoarthritis on chromosome 7q22. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 349-355.	0.5	126
8	Lumbar disc degeneration is linked to a carbohydrate sulfotransferase 3 variant. <i>Journal of Clinical Investigation</i> , 2013, 123, 4909-4917.	3.9	126
9	Advances of injectable hydrogel-based scaffolds for cartilage regeneration. <i>International Journal of Energy Production and Management</i> , 2019, 6, 129-140.	1.9	120
10	Natural hydrogels for cartilage regeneration: Modification, preparation and application. <i>Journal of Orthopaedic Translation</i> , 2019, 17, 26-41.	1.9	94
11	TRPV1 alleviates osteoarthritis by inhibiting M1 macrophage polarization via Ca ²⁺ /CaMKII/Nrf2 signaling pathway. <i>Cell Death and Disease</i> , 2021, 12, 504.	2.7	93
12	Association of a single nucleotide polymorphism in growth differentiate factor 5 with congenital dysplasia of the hip: a case-control study. <i>Arthritis Research and Therapy</i> , 2008, 10, R126.	1.6	88
13	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021, 12, 1928.	5.8	83
14	Replication of the association of the aspartic acid repeat polymorphism in the asporin gene with knee-osteoarthritis susceptibility in Han Chinese. <i>Journal of Human Genetics</i> , 2006, 51, 1068-1072.	1.1	80
15	Meta-analysis of association between the ASPN D-repeat and osteoarthritis. <i>Human Molecular Genetics</i> , 2007, 16, 1676-1681.	1.4	78
16	Nitric Oxide Nanomotor Driving Exosomes-Loaded Microneedles for Achilles Tendinopathy Healing. <i>ACS Nano</i> , 2021, 15, 13339-13350.	7.3	73
17	AMPK deficiency in chondrocytes accelerated the progression of instability-induced and ageing-associated osteoarthritis in adult mice. <i>Scientific Reports</i> , 2017, 7, 43245.	1.6	72
18	A panel of microRNAs as a new biomarkers for the detection of deep vein thrombosis. <i>Journal of Thrombosis and Thrombolysis</i> , 2015, 39, 215-221.	1.0	70

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19	Incidence of Symptomatic and Asymptomatic Venous Thromboembolism After Elective Knee Arthroscopic Surgery: A Retrospective Study With Routinely Applied Venography. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014, 30, 818-822.	1.3	65
20	Full-thickness cartilage defects are repaired via a microfracture technique and intraarticular injection of the small-molecule compound kartogenin. <i>Arthritis Research and Therapy</i> , 2015, 17, 20.	1.6	64
21	Association of the D repeat polymorphism in the ASPN gene with developmental dysplasia of the hip: a case-control study in Han Chinese. <i>Arthritis Research and Therapy</i> , 2011, 13, R27.	1.6	60
22	Strong dual-crosslinked hydrogels for ultrasound-triggered drug delivery. <i>Nano Research</i> , 2019, 12, 115-119.	5.8	54
23	Self-Cascade Uricase/Catalase Mimics Alleviate Acute Gout. <i>Nano Letters</i> , 2022, 22, 508-516.	4.5	52
24	Large replication study and meta-analyses of DVWA as an osteoarthritis susceptibility locus in European and Asian populations. <i>Human Molecular Genetics</i> , 2009, 18, 1518-1523.	1.4	50
25	Serum levels of the bone turnover markers dickkopf-1, osteoprotegerin, and TNF- α in knee osteoarthritis patients. <i>Clinical Rheumatology</i> , 2017, 36, 2351-2358.	1.0	49
26	Platelet-rich plasma combined with injectable hyaluronic acid hydrogel for porcine cartilage regeneration: a 6-month follow-up. <i>International Journal of Energy Production and Management</i> , 2020, 7, 77-90.	1.9	47
27	Deep Venous Thrombosis After Knee Arthroscopy: A Systematic Review and Meta-Analysis. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014, 30, 406-412.	1.3	45
28	Biomarkers of deep venous thrombosis. <i>Journal of Thrombosis and Thrombolysis</i> , 2012, 34, 335-346.	1.0	40
29	Intravenous release of NO from lipidic microbubbles accelerates deep vein thrombosis resolution in a rat model. <i>Thrombosis Research</i> , 2013, 131, e31-e38.	0.8	40
30	Molecular Classification of Knee Osteoarthritis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 725568.	1.8	38
31	In vivo repair of full-thickness cartilage defect with human iPSC-derived mesenchymal progenitor cells in a rabbit model. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 239-245.	0.8	36
32	Genetic study on developmental dysplasia of the hip. <i>European Journal of Clinical Investigation</i> , 2012, 42, 1121-1125.	1.7	35
33	A Common Variant Of Ubiquinol-Cytochrome c Reductase Complex Is Associated with DDH. <i>PLoS ONE</i> , 2015, 10, e0120212.	1.1	32
34	Near-Infrared Light-Driven Multifunctional Tubular Micromotors for Treatment of Atherosclerosis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30930-30940.	4.0	32
35	Association of the aspartic acid-repeat polymorphism in the asporin gene with age at onset of knee osteoarthritis in Han Chinese Population. <i>Journal of Human Genetics</i> , 2007, 52, 664-667.	1.1	31
36	Predictive value of neutrophil to lymphocyte ratio and platelet to lymphocyte ratio for acute deep vein thrombosis after total joint arthroplasty: a retrospective study. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 40.	0.9	31

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37	An Injectable Hydrogel Scaffold With Kartogenin-Encapsulated Nanoparticles for Porcine Cartilage Regeneration: A 12-Month Follow-up Study. <i>American Journal of Sports Medicine</i> , 2020, 48, 3233-3244.	1.9	30
38	Incidence and risk factors of deep vein thrombosis (DVT) after total hip or knee arthroplasty. <i>Blood Coagulation and Fibrinolysis</i> , 2017, 28, 126-133.	0.5	27
39	Association of the leptin gene with knee osteoarthritis susceptibility in a Han Chinese population: a case-control study. <i>Journal of Human Genetics</i> , 2010, 55, 704-706.	1.1	26
40	A Safe and Efficient Strategy for the Rapid Elimination of Blood Lead In Vivo Based on a Capture-Fix-Separate Mechanism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10582-10586.	7.2	25
41	Multi-Pathway Microenvironment Regulation for Atherosclerosis Therapy Based on Beta-Cyclodextrin/L-Arginine/Au Nanomotors with Dual-Mode Propulsion. <i>Small</i> , 2022, 18, e2104120.	5.2	25
42	Cystic fibrosis transmembrane conductance regulator (CFTR) gene 5T allele may protect against prostate cancer: A case-control study in Chinese Han population. <i>Journal of Cystic Fibrosis</i> , 2008, 7, 210-214.	0.3	24
43	Evaluation of posterior lateral femoral condylar hypoplasia using axial MRI images in patients with complete discoid meniscus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 909-914.	2.3	22
44	The effectiveness of allogeneic mesenchymal stem cells therapy for knee osteoarthritis in pigs. <i>Annals of Translational Medicine</i> , 2018, 6, 404-404.	0.7	22
45	Lack of association of single nucleotide polymorphism in LRCH1 with knee osteoarthritis susceptibility. <i>Journal of Human Genetics</i> , 2008, 53, 42-47.	1.1	21
46	Replication studies in various ethnic populations do not support the association of the HIF-2 α SNP rs17039192 with knee osteoarthritis. <i>Nature Medicine</i> , 2011, 17, 26-27.	15.2	21
47	Association of Single Nucleotide Polymorphisms in Estrogen Receptor Alpha Gene with Susceptibility to Knee Osteoarthritis: A Case-Control Study in a Chinese Han Population. <i>BioMed Research International</i> , 2014, 2014, 1-12.	0.9	21
48	Targeting macrophagic SHP2 for ameliorating osteoarthritis via TLR signaling. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 3073-3084.	5.7	21
49	Association of a single nucleotide polymorphism in <i>HOXB9</i> with developmental dysplasia of the hip: A case-control study. <i>Journal of Orthopaedic Research</i> , 2014, 32, 179-182.	1.2	20
50	The incidence of venous thromboembolism following total knee arthroplasty. <i>Blood Coagulation and Fibrinolysis</i> , 2016, 27, 266-269.	0.5	20
51	Pathologic changes of Achilles tendon in leptin-deficient mice. <i>Rheumatology International</i> , 2010, 30, 489-493.	1.5	18
52	Age-dependent variations of cancellous bone in response to ovariectomy in C57BL/6J mice. <i>Experimental and Therapeutic Medicine</i> , 2018, 15, 3623-3632.	0.8	18
53	Association of single-nucleotide polymorphisms in RHOB and TXNDC3 with knee osteoarthritis susceptibility: two case-control studies in East Asian populations and a meta-analysis. <i>Arthritis Research and Therapy</i> , 2008, 10, R54.	1.6	17
54	Prevalence of patellofemoral pain and knee pain in the general population of Chinese young adults: a community-based questionnaire survey. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 165.	0.8	17

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55	Serum levels of leptin, osteopontin, and sclerostin in patients with and without knee osteoarthritis. <i>Clinical Rheumatology</i> , 2021, 40, 287-294.	1.0	17
56	Femoral and tibial torsion measurements based on EOS imaging compared to 3D CT reconstruction measurements. <i>Annals of Translational Medicine</i> , 2019, 7, 460-460.	0.7	17
57	Lack of association between the CALM1 core promoter polymorphism (-16C/T) and susceptibility to knee osteoarthritis in a Chinese Han population. <i>BMC Medical Genetics</i> , 2008, 9, 91.	2.1	15
58	The assessment of femoral shaft morphology in the sagittal plane in Chinese patients with osteoarthritis—a radiographic analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 127.	0.9	15
59	New technique: practical procedure of robotic arm-assisted (MAKO) total hip arthroplasty. <i>Annals of Translational Medicine</i> , 2018, 6, 364-364.	0.7	15
60	Trehalose reduces bone loss in experimental biliary cirrhosis rats via ERK phosphorylation regulation by enhancing autophagosome formation. <i>FASEB Journal</i> , 2020, 34, 8402-8415.	0.2	15
61	Nanomotor-based adsorbent for blood Lead(II) removal in vitro and in pig models. <i>Bioactive Materials</i> , 2021, 6, 1140-1149.	8.6	15
62	A large-scale replication study for the association of rs17039192 in HIF1 α with knee osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1244-1248.	1.2	14
63	FTO variant is not associated with osteoarthritis in the Chinese Han population: replication study for a genome-wide association study identified risk loci. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 65.	0.9	14
64	Case Report: Osteochondral Avulsion Fracture of the Posteromedial Bundle of the PCL in Knee Hyperflexion. <i>Clinical Orthopaedics and Related Research</i> , 2012, 470, 3616-3623.	0.7	13
65	P-Selectin: An Unpredicted Factor for Deep Vein Thrombosis after Total Hip Arthroplasty. <i>BioMed Research International</i> , 2014, 2014, 1-6.	0.9	13
66	Andrographolide attenuates synovial inflammation of osteoarthritis by interacting with tumor necrosis factor receptor 2 trafficking in a rat model. <i>Journal of Orthopaedic Translation</i> , 2021, 29, 89-99.	1.9	13
67	Postoperative Plasma D-Dimer Value for Predicting Deep Venous Thrombosis following Hip Arthroplasty with Nadroparin Prophylaxis. <i>HIP International</i> , 2013, 23, 411-416.	0.9	12
68	Diffusion Tensor Imaging for Anatomical and Quantitative Evaluation of the Anterior Cruciate Ligament and ACL Grafts. <i>Journal of Computer Assisted Tomography</i> , 2014, 38, 489-494.	0.5	12
69	Early Pulmonary Complications following Total Knee Arthroplasty under General Anesthesia: A Prospective Cohort Study Using CT Scan. <i>BioMed Research International</i> , 2016, 2016, 1-5.	0.9	12
70	Erythrocyte Membrane-Wrapped Magnetic Nanotherapeutic Agents for Reduction and Removal of Blood Cr(VI). <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28014-28023.	4.0	12
71	Genetic polymorphisms of interleukin-1 β (β 511C/T) and interleukin-1 receptor antagonist (86-bpVNTR) in susceptibility to knee osteoarthritis in a Chinese Han population. <i>Rheumatology International</i> , 2009, 29, 1301-1305.	1.5	11
72	Deep Vein Thrombosis After Total Hip Arthroplasty and Total Knee Arthroplasty in Patients With Previous Ischemic Stroke. <i>International Journal of Lower Extremity Wounds</i> , 2013, 12, 316-319.	0.6	11

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73	Novel WISP3 mutations causing progressive pseudorheumatoid dysplasia in two Chinese families. <i>Human Genome Variation</i> , 2016, 3, 16041.	0.4	11
74	Genetic Polymorphism of NOS3 with Susceptibility to Deep Vein Thrombosis after Orthopedic Surgery: A Case-Control Study in Chinese Han Population. <i>PLoS ONE</i> , 2013, 8, e70033.	1.1	10
75	Quantitative efficacy of topical administration of tranexamic acid on postoperative bleeding in total knee arthroplasty. <i>British Journal of Clinical Pharmacology</i> , 2017, 83, 2485-2493.	1.1	10
76	Incidence and risk factors of deep venous thrombosis following arthroscopic posterior cruciate ligament reconstruction. <i>Medicine (United States)</i> , 2017, 96, e7074.	0.4	10
77	Preoperative Evaluation of Soleal Vein Diameter by Ultrasound Is Beneficial for Prophylaxis of Deep Vein Thrombosis after Total Knee or Hip Arthroplasty. <i>BioMed Research International</i> , 2018, 2018, 1-8.	0.9	10
78	Prevalence and Risk Factors of Preoperative Deep Vein Thrombosis in Patients with End-Stage Knee Osteoarthritis. <i>Annals of Vascular Surgery</i> , 2020, 64, 175-180.	0.4	10
79	A Replication Study for the Association of rs726252 in PAPP2 with Developmental Dysplasia of the Hip in Chinese Han Population. <i>BioMed Research International</i> , 2014, 2014, 1-5.	0.9	9
80	Comparison of Venous Thromboembolism after Total Hip Arthroplasty between Ankylosing Spondylitis and Osteoarthritis. <i>BioMed Research International</i> , 2014, 2014, 1-5.	0.9	9
81	Robots in orthopedic surgery. <i>Annals of Joint</i> , 0, 3, 15-15.	1.0	9
82	TDP-43 maintains chondrocyte homeostasis and alleviates cartilage degradation in osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 1036-1047.	0.6	9
83	Comparison of a novel handheld accelerometer-based navigation system and conventional instrument for performing distal femoral resection in total knee arthroplasty: a randomized controlled trial. <i>Annals of Translational Medicine</i> , 2019, 7, 659-659.	0.7	9
84	Lack of evidence for association between DVWA gene polymorphisms and developmental dysplasia of the hip in Chinese Han population. <i>Rheumatology International</i> , 2011, 31, 883-887.	1.5	8
85	Deep venous thrombosis in the nonoperated leg after primary major lower extremity arthroplasty. <i>Blood Coagulation and Fibrinolysis</i> , 2015, 26, 762-766.	0.5	8
86	Higher Levels of Serum Triglycerides Were Associated With Postoperative Deep Vein Thrombosis After Total Hip Arthroplasty in Patients With Nontraumatic Osteonecrosis of the Femoral Head. <i>International Journal of Lower Extremity Wounds</i> , 2016, 15, 41-44.	0.6	8
87	Bi-directional regulation of cartilage metabolism by inhibiting BET proteins—analysis of the effect of I-BET151 on human chondrocytes and murine joints. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 118.	0.9	7
88	A genome-wide association study identifies new genes associated with developmental dysplasia of the hip. <i>Clinical Genetics</i> , 2019, 95, 345-355.	1.0	7
89	Trehalose enhances bone fracture healing in a rat sleep deprivation model. <i>Annals of Translational Medicine</i> , 2019, 7, 297-297.	0.7	7
90	In vivo gait kinematics of the knee after anatomical and non-anatomical single-bundle anterior cruciate ligament reconstruction—a prospective study. <i>Annals of Translational Medicine</i> , 2019, 7, 799-799.	0.7	7

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91	Bone Cement Solidification Influence the Limb Alignment and Gap Balance during TKA. <i>BioMed Research International</i> , 2015, 2015, 1-3.	0.9	6
92	Does intermittent pneumatic compression increase the risk of pulmonary embolism in deep venous thrombosis after joint surgery?. <i>Blood Coagulation and Fibrinolysis</i> , 2016, 27, 246-251.	0.5	6
93	Evaluation of the Effect of the Sulcus Angle and Lateral to Medial Facet Ratio of the Patellar Groove on Patella Tracking in Aging Subjects with Stable Knee Joint. <i>BioMed Research International</i> , 2018, 2018, 1-5.	0.9	6
94	Genetic polymorphism of PITX1 in susceptibility to knee osteoarthritis in a Chinese Han population: a case-control study. <i>Rheumatology International</i> , 2011, 31, 629-633.	1.5	5
95	Diffusion Tensor Imaging of the Anterior Cruciate Ligament Graft After Reconstruction. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 244-249.	0.5	4
96	The function and behavior of chondrogenic progenitor cells in osteoarthritis. <i>Annals of Joint</i> , 2020, 5, 33-33.	1.0	4
97	Chondral Defects Cause Kissing Lesions in a Porcine Model. <i>Cartilage</i> , 2020, , 194760352095163.	1.4	4
98	Microtubule Stabilization Enhances the Chondrogenesis of Synovial Mesenchymal Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 748804.	1.8	4
99	The level of red cell distribution width cannot identify deep vein thrombosis in patients undergoing total joint arthroplasty. <i>Blood Coagulation and Fibrinolysis</i> , 2015, 26, 298-301.	0.5	3
100	A C-Met chemical inhibitor promotes fracture healing through interacting with osteogenic differentiation via the mTORC1 pathway. <i>Experimental Cell Research</i> , 2019, 381, 50-56.	1.2	3
101	Update on basic and clinical aspects of osteoarthritis. <i>Annals of Translational Medicine</i> , 2015, 3, 142.	0.7	3
102	Comparison of patient-specific instruments with the computer-assisted navigation in total knee arthroplasty for osteoarthritis in a patient with femoral fracture malunion. <i>Annals of Joint</i> , 0, 2, 2-2.	1.0	2
103	Novel carbohydrate sulfotransferase 3 mutation causing spondyloepiphyseal dysplasia with congenital joint dislocations in a Chinese family. <i>Annals of Joint</i> , 0, 2, 7-7.	1.0	2
104	Novel HSPG2 mutations causing Schwartz-Jampel syndrome type 1 in a Chinese family: A case report. <i>Molecular Medicine Reports</i> , 2018, 18, 1761-1765.	1.1	2
105	Total knee arthroplasty conversion after a failed lateral closing wedge high tibial osteotomy with knee hyperextension and secondary ankle degeneration. <i>Medicine (United States)</i> , 2017, 96, e7473.	0.4	1
106	Molecule-based osteoarthritis diagnosis comes of age. <i>Annals of Translational Medicine</i> , 2021, 9, 1112-1112.	0.7	1
107	Society for translational medicine-expert consensus on the treatment of osteoarthritis. <i>Annals of Joint</i> , 0, 4, .	1.0	1
108	A novel missense variant in is associated with developmental dysplasia of the hip in Han Chinese population. <i>International Journal of Clinical and Experimental Pathology</i> , 2017, 10, 10483-10488.	0.5	1

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109	Clinical outcome of Zweymüller total hip arthroplasty for patients with high congenital hip dislocation. HIP International, 2011, 21, 071-075.	0.9	0
110	Deep vein thrombosis after arthroplasty: Nanjing deep vein thrombosis study. Annals of Joint, 0, 1, 3-3.	1.0	0
111	In vivo kinematics of the knee after discoid lateral subtotal meniscectomy. Annals of Joint, 0, 5, 11-11.	1.0	0
112	Why am I determined to be a doctor in China?. Annals of Translational Medicine, 2021, 9, 816-816.	0.7	0