Yong Cao

List of Publications by Year
in descending order

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61 papers	1,848 citations	361413 20 h-index	302126 39 g-index
71 all docs	71 docs citations	71 times ranked	2197 citing authors

#	Article	IF	Citations
1	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. Journal of Clinical Investigation, 2019, 129, 1076-1093.	8.2	239
2	Systemic Administration of Exosomes Released from Mesenchymal Stromal Cells Attenuates Apoptosis, Inflammation, and Promotes Angiogenesis after Spinal Cord Injury in Rats. Journal of Neurotrauma, 2017, 34, 3388-3396.	3.4	200
3	Macrophage-lineage TRAP+ cells recruit periosteum-derived cells for periosteal osteogenesis and regeneration. Journal of Clinical Investigation, 2019, 129, 2578-2594.	8.2	102
4	Neural stem cell-derived exosomes facilitate spinal cord functional recovery after injury by promoting angiogenesis. Experimental Biology and Medicine, 2020, 245, 54-65.	2.4	86
5	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. Nature Communications, 2019, 10, 5643.	12.8	72
6	The Angiogenic Effect of microRNA-21 Targeting TIMP3 through the Regulation of MMP2 and MMP9. PLoS ONE, 2016, 11, e0149537.	2.5	64
7	Ciliary parathyroid hormone signaling activates transforming growth factor-Î² to maintain intervertebral disc homeostasis during aging. Bone Research, 2018, 6, 21.	11.4	59
8	Three-dimensional imaging of microvasculature in the rat spinal cord following injury. Scientific Reports, 2015, 5, 12643.	3.3	58
9	LncGBP9/miR-34a axis drives macrophages toward a phenotype conducive for spinal cord injury repair via STAT1/STAT6 and SOCS3. Journal of Neuroinflammation, 2020, 17, 134.	7.2	54
10	Local delivery of USC-derived exosomes harboring ANGPTL3 enhances spinal cord functional recovery after injury by promoting angiogenesis. Stem Cell Research and Therapy, 2021, 12, 20.	5.5	54
11	UTX/KDM6A Deletion Promotes Recovery of Spinal Cord Injury by Epigenetically Regulating Vascular Regeneration. Molecular Therapy, 2019, 27, 2134-2146.	8.2	50
12	BMSCsâ€Derived Exosomes Ameliorate Pain Via Abrogation of Aberrant Nerve Invasion in Subchondral Bone in Lumbar Facet Joint Osteoarthritis. Journal of Orthopaedic Research, 2020, 38, 670-679.	2.3	46
13	Exosomes derived from human placenta-derived mesenchymal stem cells improve neurologic function by promoting angiogenesis after spinal cord injury. Neuroscience Letters, 2020, 739, 135399.	2.1	41
14	Exosomal OTULIN from M2 macrophages promotes the recovery of spinal cord injuries via stimulating Wnt/Î²-catenin pathway-mediated vascular regeneration. Acta Biomaterialia, 2021, 136, 519-532.	8.3	41
15	Highâ€resolution threeâ€dimensional visualization of the rat spinal cord microvasculature by synchrotron radiation microâ€CT. Medical Physics, 2014, 41, 101904.	3.0	35
16	Extracellular Vesicles Derived from Epidural Fat-Mesenchymal Stem Cells Attenuate NLRP3 Inflammasome Activation and Improve Functional Recovery After Spinal Cord Injury. Neurochemical Research, 2020, 45, 760-771.	3.3	33
17	Silencing of lncRNA PKIA-AS1 Attenuates Spinal Nerve Ligation-Induced Neuropathic Pain Through Epigenetic Downregulation of CDK6 Expression. Frontiers in Cellular Neuroscience, 2019, 13, 50.	3.7	31
18	Three Dimensional Quantification of Microarchitecture and Vessel Regeneration by Synchrotron Radiation Microcomputed Tomography in a Rat Model of Spinal Cord Injury. Journal of Neurotrauma, 2017, 34, 1187-1199.	3.4	30

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19	Tetramethylpyrazine enhances functional recovery after contusion spinal cord injury by modulation of MicroRNA-21, FasL, PDCD4 and PTEN expression. Brain Research, 2016, 1648, 35-45.	2.2	29
20	Association of Sedentary Behavior With Anxiety, Depression, and Suicide Ideation in College Students. Frontiers in Psychiatry, 2020, 11, 566098.	2.6	29
21	Bone Marrow Mesenchymal Stem Cell-Derived Exosomes Accelerate Functional Recovery After Spinal Cord Injury by Promoting the Phagocytosis of Macrophages to Clean Myelin Debris. Frontiers in Cell and Developmental Biology, 2021, 9, 772205.	3.7	27
22	The lncRNA Ftx/miR-382-5p/Nrg1 axis improves the inflammation response of microglia and spinal cord injury repair. Neurochemistry International, 2021, 143, 104929.	3.8	25
23	Microglia-Derived Exosomal microRNA-151-3p Enhances Functional Healing After Spinal Cord Injury by Attenuating Neuronal Apoptosis via Regulating the p53/p21/CDK1 Signaling Pathway. Frontiers in Cell and Developmental Biology, 2021, 9, 783017.	3.7	21
24	3D characterization of morphological changes in the intervertebral disc and endplate during aging: A propagation phase contrast synchrotron micro-tomography study. Scientific Reports, 2017, 7, 43094.	3.3	19
25	Effect of book-shaped acellular tendon scaffold with bone marrow mesenchymal stem cells sheets on boneâ€“tendon interface healing. Journal of Orthopaedic Translation, 2021, 26, 162-170.	3.9	19
26	Tetramethylpyrazine Facilitates Functional Recovery after Spinal Cord Injury by Inhibiting MMP2, MMP9, and Vascular Endothelial Cell Apoptosis. Current Neurovascular Research, 2017, 14, 110-116.	1.1	19
27	360-degree cervical spinal arthrodesis for treatment of pediatric cervical spinal tuberculosis with kyphosis. BMC Musculoskeletal Disorders, 2016, 17, 175.	1.9	18
28	Synchrotron radiation micro-CT as a novel tool to evaluate the effect of agomir-210 in a rat spinal cord injury model. Brain Research, 2017, 1655, 55-65.	2.2	18
29	Synchrotron Radiation Imaging Reveals the Role of Estrogen in Promoting Angiogenesis After Acute Spinal Cord Injury in Rats. Spine, 2018, 43, 1241-1249.	2.0	18
30	Preparation and Characterization of a Novel Decellularized Fibrocartilage â€œBookâ€•Scaffold for Use in Tissue Engineering. PLoS ONE, 2015, 10, e0144240.	2.5	17
31	Micro-CT as a Tool to Investigate the Efficacy of Tetramethylpyrazine in a Rat Spinal Cord Injury Model. Spine, 2016, 41, 1272-1278.	2.0	16
32	Nondestructive imaging of the internal microstructure of vessels and nerve fibers in rat spinal cord using phase-contrast synchrotron radiation microtomography. Journal of Synchrotron Radiation, 2017, 24, 482-489.	2.4	15
33	Comparison of Synchrotron Radiation-based Propagation Phase Contrast Imaging and Conventional Micro-computed Tomography for Assessing Intervertebral Discs and Endplates in a Murine Model. Spine, 2017, 42, E883-E889.	2.0	15
34	Bone Marrow Mesenchymal Stem Cell-Derived Exosome-Educated Macrophages Promote Functional Healing After Spinal Cord Injury. Frontiers in Cellular Neuroscience, 2021, 15, 725573.	3.7	15
35	Non-destructive 3D Microtomography of Cerebral Angioarchitecture Changes Following Ischemic Stroke in Rats Using Synchrotron Radiation. Frontiers in Neuroanatomy, 2019, 13, 5.	1.7	13
36	UTX/KDM6A deletion promotes the recovery of spinal cord injury by epigenetically triggering intrinsic neural regeneration. Molecular Therapy - Methods and Clinical Development, 2021, 20, 337-349.	4.1	13

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37	3D visualization of the lumbar facet joint after degeneration using propagation phase contrast micro-tomography. Scientific Reports, 2016, 6, 21838.	3.3	12
38	Morphometric Analysis of Rat Spinal Cord Angioarchitecture by Phase Contrast Radiography. Spine, 2018, 43, E504-E511.	2.0	12
39	Three-dimensional characterization of the microstructure in rabbit patellaâ€“patellar tendon interface using propagation phase-contrast synchrotron radiation microtomography. Journal of Synchrotron Radiation, 2018, 25, 1833-1840.	2.4	12
40	Three-dimensional visualization and pathologic characteristics of cartilage and subchondral bone changes in the lumbar facet joint of an ovariectomized mouse model. Spine Journal, 2018, 18, 663-673.	1.3	11
41	UtxRegulates the NF-ÎºB Signaling Pathway of Natural Stem Cells to Modulate Macrophage Migration during Spinal Cord Injury. Journal of Neurotrauma, 2021, 38, 353-364.	3.4	11
42	Simultaneous 3D Visualization of the Microvascular and Neural Network in Mouse Spinal Cord Using Synchrotron Radiation Micro-Computed Tomography. Neuroscience Bulletin, 2021, 37, 1469-1480.	2.9	11
43	SRÎ¼CT Reveals 3D Microstructural Alterations of the Vascular and Neuronal Network in a Rat Model of Chronic Compressive Thoracic Spinal Cord Injury. , 2020, 11, 603.		11
44	Genetic factors of cervical spondylotic myelopathy-a systemic review. Journal of Clinical Neuroscience, 2017, 44, 89-94.	1.5	10
45	Knockdown of SNHG1 alleviates autophagy and apoptosis by regulating miR-362-3p/Jak2/stat3 pathway in LPS-injured PC12 cells. Neurochemical Research, 2021, 46, 945-956.	3.3	10
46	Comprehensive analysis of N6-methyladenosine (m6A) modification during the degeneration of lumbar intervertebral disc in mice. Journal of Orthopaedic Translation, 2021, 31, 126-138.	3.9	10
47	Osteopontin, Bone Morphogenetic Protein-4, and Vitamin D Receptor Gene Polymorphisms in the Susceptibility and Clinical Severity of Spinal Tuberculosis. Cellular Physiology and Biochemistry, 2017, 41, 1881-1893.	1.6	9
48	Synchrotron radiation micro-tomography for high-resolution neurovascular network morphology investigation. Journal of Synchrotron Radiation, 2019, 26, 607-618.	2.4	9
49	Unilateral Limited Laminectomy for Debridement to Treat Localized Shortâ€Segment Lumbosacral Spinal Tuberculosis: A Retrospective Case Series. Orthopaedic Surgery, 2021, 13, 1170-1180.	1.8	9
50	Mechanical stimulation promotes enthesis injury repair by mobilizing Prrx1+ cells via ciliary TGF-Î² signaling. ELife, 2022, 11, .	6.0	9
51	The 3D characteristics of post-traumatic syringomyelia in a rat model: a propagation-based synchrotron radiation microtomography study. Journal of Synchrotron Radiation, 2017, 24, 1218-1225.	2.4	7
52	3D digital anatomic angioarchitecture of the mouse brain using synchrotron-radiation-based propagation phase-contrast imaging. Journal of Synchrotron Radiation, 2019, 26, 1742-1750.	2.4	7
53	Unilateral Osteotomy of Lumbar Facet Joint Induces a Mouse Model of Lumbar Facet Joint Osteoarthritis. Spine, 2019, 44, E930-E938.	2.0	7
54	3D Digital Anatomic Angioarchitecture of the Rat Spinal Cord: A Synchrotron Radiation Micro-CT Study. Frontiers in Neuroanatomy, 2020, 14, 41.	1.7	7

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55	Visualization of mouse spinal cord intramedullary arteries using phase- and attenuation-contrast tomographic imaging. Journal of Synchrotron Radiation, 2016, 23, 966-974.	2.4	6
56	A combinatorial method to visualize the neuronal network in the mouse spinal cord: combination of a modified Golgi-Cox method and synchrotron radiation micro-computed tomography. Histochemistry and Cell Biology, 2021, 155, 477-489.	1.7	6
57	Characterization of the Subchondral Bone and Pain Behavior Changes in a Novel Bipedal Standing Mouse Model of Facet Joint Osteoarthritis. BioMed Research International, 2020, 2020, 1-11.	1.9	5
58	Interleukin-6, tumor necrosis factor-alpha and receptor activator of nuclear factor kappa ligand are elevated in hypertrophic gastric mucosa of pachydermoperiostosis. Scientific Reports, 2017, 7, 9686.	3.3	4
59	MicroRNA-336 directly targets Sox-2 in osteosarcoma to inhibit tumorigenesis. Molecular Medicine Reports, 2017, 15, 4217-4224.	2.4	3
60	3D visualization and morphometric analysis of spinal motion segments and vascular networks: A synchrotron radiationâ€based microâ€CT study in mice. Journal of Anatomy, 2022, 240, 268-278.	1.5	3
61	Effectiveness and Safety of Inelastic Versus Elastic Lumbosacral Orthoses on Low Back Pain Prevention in Healthy Nurses. Spine, 2022, 47, 656-665.	2.0	1