

Xiaohong Bi

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,525
citations

279798

23
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

2411
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustained Osteomalacia of Long Bones Despite Major Improvement in Other Hypophosphatasia-Related Mineral Deficits in Tissue Nonspecific Alkaline Phosphatase/Nucleotide Pyrophosphatase Phosphodiesterase 1 Double-Deficient Mice. <i>American Journal of Pathology</i> , 2005, 166, 1711-1720.	3.8	116
2	Fourier transform infrared imaging spectroscopy investigations in the pathogenesis and repair of cartilage. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 934-941.	2.6	112
3	Synergistic acceleration in the osteogenesis of human mesenchymal stem cells by graphene oxide-calcium phosphate nanocomposites. <i>Chemical Communications</i> , 2014, 50, 8484-8487.	4.1	84
4	Differential effects between the loss of MMP-2 and MMP-9 on structural and tissue-level properties of bone. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1252-1260.	2.8	83
5	Risk factors for extrapulmonary dissemination of tuberculosis and associated mortality during treatment for extrapulmonary tuberculosis. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-14.	6.5	82
6	Raman and mechanical properties correlate at whole bone- and tissue-levels in a genetic mouse model. <i>Journal of Biomechanics</i> , 2011, 44, 297-303.	2.1	77
7	Nature of phosphate substrate as a major determinant of mineral type formed in matrix vesicle-mediated in vitro mineralization: An FTIR imaging study. <i>Bone</i> , 2006, 38, 811-817.	2.9	75
8	Fourier transform infrared imaging and MR microscopy studies detect compositional and structural changes in cartilage in a rabbit model of osteoarthritis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1601-1612.	3.7	69
9	Secondary Structure and Lipid Interactions of the N-Terminal Segment of Pulmonary Surfactant SP-C in Langmuir Films: IR Reflection Absorption Spectroscopy and Surface Pressure Studies. <i>Biochemistry</i> , 2002, 41, 8385-8395.	2.5	67
10	Measuring Differences in Compositional Properties of Bone Tissue by Confocal Raman Spectroscopy. <i>Calcified Tissue International</i> , 2011, 89, 111-122.	3.1	66
11	The swaying mouse as a model of osteogenesis imperfecta caused by WNT1 mutations. <i>Human Molecular Genetics</i> , 2014, 23, 4035-4042.	2.9	66
12	Fourier transform infrared imaging spectroscopic analysis of tissue engineered cartilage: histologic and biochemical correlations. <i>Journal of Biomedical Optics</i> , 2005, 10, 031105.	2.6	65
13	Evaluating HER2 amplification status and acquired drug resistance in breast cancer cells using Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 025001.	2.6	45
14	Prostate cancer metastases alter bone mineral and matrix composition independent of effects on bone architecture in mice - A quantitative study using microCT and Raman spectroscopy. <i>Bone</i> , 2013, 56, 454-460.	2.9	42
15	Thermal Stability and DPPC/Ca ²⁺ Interactions of Pulmonary Surfactant SP-A from Bulk-Phase and Monolayer IR Spectroscopy. <i>Biochemistry</i> , 2001, 40, 13659-13669.	2.5	41
16	Clinical characterization of in vivo inflammatory bowel disease with Raman spectroscopy. <i>Biomedical Optics Express</i> , 2017, 8, 524.	2.9	41
17	Development of Spectral Markers for the Discrimination of Ulcerative Colitis and Crohn's Disease Using Raman Spectroscopy. <i>Diseases of the Colon and Rectum</i> , 2011, 54, 48-53.	1.3	37
18	Infrared Fiber Optic Probe Evaluation of Degenerative Cartilage Correlates to Histological Grading. <i>American Journal of Sports Medicine</i> , 2012, 40, 2853-2861.	4.2	36

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19	Head and neck tuberculosis: Literature review and meta-analysis. <i>Tuberculosis</i> , 2019, 116, S78-S88.	1.9	32
20	Quantitative Functional Group Orientation in Langmuir Films by Infrared Reflection-Absorption Spectroscopy: CO Groups in Behenic Acid Methyl Ester and sn-2-13C-DSPC. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7202-7211.	2.6	30
21	TRIM44 promotes quiescent multiple myeloma cell occupancy and survival in the osteoblastic niche via HIF-1 α stabilization. <i>Leukemia</i> , 2019, 33, 469-486.	7.2	30
22	Mutant cartilage oligomeric matrix protein (COMP) compromises bone integrity, joint function and the balance between adipogenesis and osteogenesis. <i>Matrix Biology</i> , 2018, 67, 75-89.	3.6	26
23	Correlations Between Bone Mechanical Properties and Bone Composition Parameters in Mouse Models of Dominant and Recessive Osteogenesis Imperfecta and the Response to Anti-TGF- β 2 Treatment. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 347-359.	2.8	24
24	Improved IRRAS Apparatus for Studies of Aqueous Monolayer Films: Determination of the Orientation of Each Chain in a Fatty-Acid Homogeneous Ceramide 2. <i>Applied Spectroscopy</i> , 2001, 55, 1060-1066.	2.2	20
25	In vivo analysis of mucosal lipids reveals histological disease activity in ulcerative colitis using endoscope-coupled Raman spectroscopy. <i>Biomedical Optics Express</i> , 2017, 8, 3426.	2.9	20
26	Reverse-Time Migration Based Optical Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 273-281.	8.9	19
27	Development of Raman spectral markers to assess metastatic bone in breast cancer. <i>Journal of Biomedical Optics</i> , 2014, 19, 111606.	2.6	18
28	A comparison of BMP2 delivery by coacervate and gene therapy for promoting human muscle-derived stem cell-mediated articular cartilage repair. <i>Stem Cell Research and Therapy</i> , 2019, 10, 346.	5.5	17
29	Use of a mechanical iris-based fiber optic probe for spatially offset Raman spectroscopy. <i>Optics Letters</i> , 2014, 39, 3790.	3.3	16
30	<i>Fkbp10</i> Deletion in Osteoblasts Leads to Qualitative Defects in Bone. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1354-1367.	2.8	16
31	ZIP4 silencing improves bone loss in pancreatic cancer. <i>Oncotarget</i> , 2015, 6, 26041-26051.	1.8	16
32	Effect of physiological factors on the biochemical properties of colon tissue – an <i>in vivo</i> Raman spectroscopy study. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 902-909.	2.5	13
33	Osteoclast Differentiation Assay. <i>Methods in Molecular Biology</i> , 2019, 1882, 143-148.	0.9	10
34	Characterization of bone quality in prostate cancer bone metastases using Raman spectroscopy. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
35	Spatially offset raman spectroscopy for non-invasive assessment of fracture healing. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
36	An eight-year epidemiologic study of head and neck tuberculosis in Texas, USA. <i>Tuberculosis</i> , 2019, 116, S71-S77.	1.9	3

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37	Areaâ€detection fibreâ€optic system for spatially offset Raman spectroscopy and Raman tomography in reflection mode. Electronics Letters, 2015, 51, 1684-1686.	1.0	2
38	Discrimination of inflammatory bowel disease using Raman spectroscopy and linear discriminant analysis methods. , 2016, , .		2