

# Liisa T Kuhn

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

4,717  
citations

201674

27  
h-index

138484

58  
g-index

68  
all docs

68  
docs citations

68  
times ranked

6064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and the hierarchical structure of bone. Medical Engineering and Physics, 1998, 20, 92-102.	1.7	2,008
2	Yielding of metal powder bonded by isolated contacts. Journal of the Mechanics and Physics of Solids, 1992, 40, 1139-1162.	4.8	276
3	Shape and size of isolated bone mineralites measured using atomic force microscopy. Journal of Orthopaedic Research, 2001, 19, 1027-1034.	2.3	205
4	Design and characterization of calcium phosphate ceramic scaffolds for bone tissue engineering. Dental Materials, 2016, 32, 43-53.	3.5	202
5	A diffusional creep law for powder compacts. Acta Metallurgica Et Materialia, 1992, 40, 961-969.	1.8	192
6	One-Step Derivation of Mesenchymal Stem Cell (MSC)-Like Cells from Human Pluripotent Stem Cells on a Fibrillar Collagen Coating. PLoS ONE, 2012, 7, e33225.	2.5	120
7	Raman Spectra of Vateritic Calcium Carbonate. Spectroscopy Letters, 1995, 28, 983-995.	1.0	118
8	Size and Shape of Mineralites in Young Bovine Bone Measured by Atomic Force Microscopy. Calcified Tissue International, 2003, 72, 592-598.	3.1	118
9	Evidence of hydroxyl-ion deficiency in bone apatites: an inelastic neutron-scattering study. Bone, 2000, 26, 599-602.	2.9	115
10	Interactions of cisplatin with calcium phosphate nanoparticles: In vitro controlled adsorption and release. Journal of Orthopaedic Research, 2004, 22, 703-708.	2.3	94
11	Power-law creep of powder bonded by isolated contacts. International Journal of Mechanical Sciences, 1992, 34, 563-573.	6.7	83
12	A Comparison of the Physical and Chemical Differences Between Cancellous and Cortical Bovine Bone Mineral at Two Ages. Calcified Tissue International, 2008, 83, 146-154.	3.1	83
13	Controlled M1-to-M2 transition of aged macrophages by calcium phosphate coatings. Biomaterials, 2019, 196, 90-99.	11.4	73
14	Chemotherapy drug delivery from calcium phosphate nanoparticles. International Journal of Nanomedicine, 2007, 2, 667-74.	6.7	65
15	Osteogenetic Properties of Electrospun Nanofibrous PCL Scaffolds Equipped With Chitosan-Based Nanoreservoirs of Growth Factors. Macromolecular Bioscience, 2014, 14, 45-55.	4.1	62
16	Effects of low dose FGF-2 and BMP-2 on healing of calvarial defects in old mice. Experimental Gerontology, 2015, 64, 62-69.	2.8	57
17	A biomimetic example of brittle toughening: (I) steady state multiple cracking. Computational Materials Science, 1996, 5, 157-166.	3.0	56
18	Developmental-Like Bone Regeneration by Human Embryonic Stem Cell-Derived Mesenchymal Cells. Tissue Engineering - Part A, 2014, 20, 365-377.	3.1	48

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19	Structure, Composition, and Maturation of Newly Deposited Calcium-Phosphate Crystals in Chicken Osteoblast Cell Cultures. <i>Journal of Bone and Mineral Research</i> , 2000, 15, 1301-1309.	2.8	43
20	Fibroblast Growth Factor-2 and Bone Morphogenetic Protein-2 Have a Synergistic Stimulatory Effect on Bone Formation in Cell Cultures From Elderly Mouse and Human Bone. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 1170-1180.	3.6	42
21	A Model for Power Consolidation. <i>Journal of the American Ceramic Society</i> , 1991, 74, 682-685.	3.8	41
22	<sup />Calvarial Bone Regeneration Is Enhanced by Sequential Delivery of FGF-2 and BMP-2 from Layer-by-Layer Coatings with a Biomimetic Calcium Phosphate Barrier Layer. <i>Tissue Engineering - Part A</i> , 2017, 23, 1490-1501.	3.1	40
23	Imaging tumor hypoxia by near-infrared fluorescence tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 066009.	2.6	35
24	An evaluation of BMP delivery from scaffolds with miniaturized dental implants in a novel rat mandible model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 315-326.	3.4	34
25	Layer-by-layer nanoparticle platform for cancer active targeting. <i>International Journal of Pharmaceutics</i> , 2017, 517, 58-66.	5.2	32
26	Synthesis and fluorescent characteristics of imidazole-indocyanine green conjugates. <i>Dyes and Pigments</i> , 2011, 89, 9-15.	3.7	30
27	Targeting tumor hypoxia with 2-nitroimidazole-indocyanine green dye conjugates. <i>Journal of Biomedical Optics</i> , 2013, 18, 066009.	2.6	29
28	Modified Hyaluronan Hydrogels Support the Maintenance of Mouse Embryonic Stem Cells and Human Induced Pluripotent Stem Cells. <i>Macromolecular Bioscience</i> , 2012, 12, 1034-1042.	4.1	27
29	Growth of new bone guided by implants in a murine calvarial model. <i>Bone</i> , 2008, 43, 781-788.	2.9	26
30	Implant system for guiding a new layer of bone. Computed microtomography and histomorphometric analysis in the rabbit mandible. <i>Clinical Oral Implants Research</i> , 2009, 20, 201-207.	4.5	26
31	Fibroblast Growth Factor-2 Isoform (Low Molecular Weight/18 kDa) Overexpression in Preosteoblast Cells Promotes Bone Regeneration in Critical Size Calvarial Defects in Male Mice. <i>Endocrinology</i> , 2014, 155, 965-974.	2.8	25
32	Fibroblast Growth Factor-2 Stimulates the Proliferation of Mesenchyme-Derived Progenitor Cells From Aging Mouse and Human Bone. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 1051-1059.	3.6	22
33	Age-Related Changes in FGF-2, Fibroblast Growth Factor Receptors and $\beta$ -Catenin Expression in Human Mesenchyme-Derived Progenitor Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 721-729.	2.6	19
34	A Nondestructive Method for Evaluating In Vitro Osteoblast Differentiation on Biomaterials Using Osteoblast-Specific Fluorescence. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1357-1366.	2.1	18
35	Self-assembled biomimetic Nano-Matrix for stem cell anchorage. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 984-991.	4.0	18
36	Pro416Arg cherubism mutation in Sh3bp2 knock-in mice affects osteoblasts and alters bone mineral and matrix properties. <i>Bone</i> , 2010, 46, 1306-1315.	2.9	17

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37	A Site-Specific Integrated Col2.3GFP Reporter Identifies Osteoblasts Within Mineralized Tissue Formed In Vivo by Human Embryonic Stem Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1125-1137.	3.3	17
38	Therapeutic Touch Has Significant Effects on Mouse Breast Cancer Metastasis and Immune Responses but Not Primary Tumor Size. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-10.	1.2	17
39	Effects of the physico-chemical nature of two biomimetic crystals on the innate immune response. <i>International Immunopharmacology</i> , 2007, 7, 1617-1629.	3.8	16
40	Implantâ€guided vertical bone growth in the miniâ€pig. <i>Clinical Oral Implants Research</i> , 2012, 23, 751-757.	4.5	16
41	Use of a Perforated Scaffold-Retaining Abutment to Achieve Vertical Bone Regeneration Around Dental Implants in the Minipig. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, 432-443.	1.4	15
42	Biomimetic calcium phosphate/polyelectrolyte multilayer coatings for sequential delivery of multiple biological factors. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1500-1509.	4.0	15
43	Comparison of bone morphogenetic proteinâ€2 delivery systems to induce supracrestal bone guided by titanium implants in the rabbit mandible. <i>Clinical Oral Implants Research</i> , 2016, 27, 676-685.	4.5	13
44	Fabrication and Characterization of Hydroxyapatite-Coated Polystyrene Disks for Use in Osteoprogenitor Cell Culture. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1371-1387.	3.5	11
45	Carboxymethyl Hyaluronan-Stabilized Nanoparticles for Anticancer Drug Delivery. <i>International Journal of Cell Biology</i> , 2015, 2015, 1-14.	2.5	11
46	Implantâ€guided supracrestal alveolar bone growth using scaffolds, <scp>BMP</scp>â€2, and novel scaffoldâ€retaining device. <i>Clinical Oral Implants Research</i> , 2017, 28, 1411-1420.	4.5	10
47	Human biofield therapy does not affect tumor size but modulates immune responses in a mouse model for breast cancer. <i>Journal of Integrative Medicine</i> , 2016, 14, 389-399.	3.1	9
48	Controlled Self-Assembly of DNA-Mimicking Nanotubes to Form a Layer-by-Layer Scaffold for Homeostatic Tissue Constructs. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51321-51332.	8.0	9
49	Optimizing BMP-2-induced bone repair with FGF-2. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2014, 22, 677-679.	2.5	8
50	Enhanced Differentiation of Dental Pulp Cells Cultured on Microtubular Polymer Scaffolds In Vitro. <i>Regenerative Engineering and Translational Medicine</i> , 2017, 3, 94-105.	2.9	8
51	Editorial: Enabling Biomaterials for New Biomedical Technologies and Clinical Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 559.	4.1	6
52	Endogenous <scp>FGF</scp>â€2 levels impact <scp>FGF</scp>â€2/<scp>BMP</scp>â€2 growth factor delivery dosing in aged murine calvarial bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2545-2555.	4.0	6
53	Cell Type Influences Local Delivery of Biomolecules from a Bioinspired Apatite Drug Delivery System. <i>Materials</i> , 2018, 11, 1703.	2.9	5
54	Lithiumâ€endâ€capped polylactide thin films influence osteoblast progenitor cell differentiation and mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 500-510.	4.0	4

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55	Bone Tissue Engineering Around Dental Implants. , 2015, , 749-764.		3
56	Tumor hypoxia fluorescence imaging using 2-nitroimidazole bis -carboxylic acid indocyanine dye conjugate. Proceedings of SPIE, 2011, , .	0.8	1
57	Target tumor hypoxia with 2-nitroimidazole-ICG dye conjugates. Proceedings of SPIE, 2013, , .	0.8	1
58	The US/China workshop: Regulation, standards, and innovation IV, organized by the Chinese Society for Biomaterials (CSBM) and the US Society for Biomaterials (SFB) in Minneapolis 2017. Bioactive Materials, 2017, 2, 116-117.	15.6	1
59	Nitroimidazole-Indocyanine Green Conjugates for Breast Cancer Hypoxia Imaging. , 2010, , .		1
60	Osteogenic differentiation of hESCs after culturing on fibrillar type I collagen coatings. , 2010, , .		0
61	Macromol. Biosci. 8/2012. Macromolecular Bioscience, 2012, 12, n/a-n/a.	4.1	0
62	Response to the Letter "Age and site should be considered when investigating the effect of growth factors on human bone-derived cells". Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1092-1093.	3.6	0
63	Therapeutic Touch Modulates Immune Function and Inhibits Metastasis but Not Primary Tumor Size in a Breast Cancer Model in Mice. Journal of Alternative and Complementary Medicine, 2014, 20, A34-A35.	2.1	0