

Liisa T Kuhn

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

4,717
citations

201385

27
h-index

138251

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. <i>Medical Engineering and Physics</i> , 1998, 20, 92-102. | 0.8 | 2,008 |
| 2 | Yielding of metal powder bonded by isolated contacts. <i>Journal of the Mechanics and Physics of Solids</i> , 1992, 40, 1139-1162. | 2.3 | 276 |
| 3 | Shape and size of isolated bone mineralites measured using atomic force microscopy. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1027-1034. | 1.2 | 205 |
| 4 | Design and characterization of calcium phosphate ceramic scaffolds for bone tissue engineering. <i>Dental Materials</i> , 2016, 32, 43-53. | 1.6 | 202 |
| 5 | A diffusional creep law for powder compacts. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 961-969. | 1.9 | 192 |
| 6 | One-Step Derivation of Mesenchymal Stem Cell (MSC)-Like Cells from Human Pluripotent Stem Cells on a Fibrillar Collagen Coating. <i>PLoS ONE</i> , 2012, 7, e33225. | 1.1 | 120 |
| 7 | Raman Spectra of Vateritic Calcium Carbonate. <i>Spectroscopy Letters</i> , 1995, 28, 983-995. | 0.5 | 118 |
| 8 | Size and Shape of Mineralites in Young Bovine Bone Measured by Atomic Force Microscopy. <i>Calcified Tissue International</i> , 2003, 72, 592-598. | 1.5 | 118 |
| 9 | Evidence of hydroxyl-ion deficiency in bone apatites: an inelastic neutron-scattering study. <i>Bone</i> , 2000, 26, 599-602. | 1.4 | 115 |
| 10 | Interactions of cisplatin with calcium phosphate nanoparticles: In vitro controlled adsorption and release. <i>Journal of Orthopaedic Research</i> , 2004, 22, 703-708. | 1.2 | 94 |
| 11 | Power-law creep of powder bonded by isolated contacts. <i>International Journal of Mechanical Sciences</i> , 1992, 34, 563-573. | 3.6 | 83 |
| 12 | A Comparison of the Physical and Chemical Differences Between Cancellous and Cortical Bovine Bone Mineral at Two Ages. <i>Calcified Tissue International</i> , 2008, 83, 146-154. | 1.5 | 83 |
| 13 | Controlled M1-to-M2 transition of aged macrophages by calcium phosphate coatings. <i>Biomaterials</i> , 2019, 196, 90-99. | 5.7 | 73 |
| 14 | Chemotherapy drug delivery from calcium phosphate nanoparticles. <i>International Journal of Nanomedicine</i> , 2007, 2, 667-74. | 3.3 | 65 |
| 15 | Osteogenetic Properties of Electrospun Nanofibrous PCL Scaffolds Equipped With Chitosan-Based Nanoreservoirs of Growth Factors. <i>Macromolecular Bioscience</i> , 2014, 14, 45-55. | 2.1 | 62 |
| 16 | Effects of low dose FGF-2 and BMP-2 on healing of calvarial defects in old mice. <i>Experimental Gerontology</i> , 2015, 64, 62-69. | 1.2 | 57 |
| 17 | A biomimetic example of brittle toughening: (I) steady state multiple cracking. <i>Computational Materials Science</i> , 1996, 5, 157-166. | 1.4 | 56 |
| 18 | Developmental-Like Bone Regeneration by Human Embryonic Stem Cell-Derived Mesenchymal Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 365-377. | 1.6 | 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. | 3.1 | 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. | 1.7 | 42 |
| 21 | A Model for Power Consolidation. <i>Journal of the American Ceramic Society</i> , 1991, 74, 682-685. | 1.9 | 41 |
| 22 | 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. | 1.6 | 40 |
| 23 | Imaging tumor hypoxia by near-infrared fluorescence tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 066009. | 1.4 | 35 |
| 24 | An evaluation of BMP-2 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. | 1.6 | 34 |
| 25 | Layer-by-layer nanoparticle platform for cancer active targeting. <i>International Journal of Pharmaceutics</i> , 2017, 517, 58-66. | 2.6 | 32 |
| 26 | Synthesis and fluorescent characteristics of imidazole-indocyanine green conjugates. <i>Dyes and Pigments</i> , 2011, 89, 9-15. | 2.0 | 30 |
| 27 | Targeting tumor hypoxia with 2-nitroimidazole-indocyanine green dye conjugates. <i>Journal of Biomedical Optics</i> , 2013, 18, 066009. | 1.4 | 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. | 2.1 | 27 |
| 29 | Growth of new bone guided by implants in a murine calvarial model. <i>Bone</i> , 2008, 43, 781-788. | 1.4 | 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. | 1.9 | 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. | 1.4 | 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. | 1.7 | 22 |
| 33 | Age-Related Changes in FGF-2, Fibroblast Growth Factor Receptors and β -Catenin Expression in Human Mesenchyme-Derived Progenitor Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 721-729. | 1.2 | 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. | 1.1 | 18 |
| 35 | Self-assembled biomimetic Nano-Matrix for stem cell anchorage. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 984-991. | 2.1 | 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. | 1.4 | 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. | 1.6 | 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. | 0.5 | 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. | 1.7 | 16 |
| 40 | Implantâ€gguided vertical bone growth in the miniâ€gpig. <i>Clinical Oral Implants Research</i> , 2012, 23, 751-757. | 1.9 | 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. | 0.6 | 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. | 2.1 | 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. | 1.9 | 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. | 1.9 | 11 |
| 45 | Carboxymethyl Hyaluronan-Stabilized Nanoparticles for Anticancer Drug Delivery. <i>International Journal of Cell Biology</i> , 2015, 2015, 1-14. | 1.0 | 11 |
| 46 | Implantâ€gguided supracrestal alveolar bone growth using scaffolds, <scp>BMP</scp>â€2, and novel scaffoldâ€eretaining device. <i>Clinical Oral Implants Research</i> , 2017, 28, 1411-1420. | 1.9 | 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. | 1.4 | 9 |
| 48 | Controlled Self-Assembly of DNA-Mimicking Nanotubes to Form a Layer-by-Layer Scaffold for Homeostatic Tissue Constructs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51321-51332. | 4.0 | 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. | 1.1 | 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. | 1.6 | 8 |
| 51 | Editorial: Enabling Biomaterials for New Biomedical Technologies and Clinical Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 559. | 2.0 | 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. | 2.1 | 6 |
| 53 | Cell Type Influences Local Delivery of Biomolecules from a Bioinspired Apatite Drug Delivery System. <i>Materials</i> , 2018, 11, 1703. | 1.3 | 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. | 2.1 | 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. | 8.6 | 1 |
| 59 | Nitroimidazole-Indocynine 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. | 2.1 | 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. | 1.7 | 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 |