# Lingzhou Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11422194/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 44 papers | 4,782 citations | 201575 27 h-index | 265120 42 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 5985 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biofunctional Elements Incorporated Nano/Microstructured Coatings on Titanium Implants with Enhanced Osteogenic and Antibacterial Performance. Advanced Healthcare Materials, 2020, 9, e2000681. | 3.9 | 42 |
| 2 | Chitosan-miRNA functionalized microporous titanium oxide surfaces via a layer-by-layer approach with a sustained release profile for enhanced osteogenic activity. Journal of Nanobiotechnology, 2020, 18, 127. | 4.2 | 20 |
| 3 | Antibacterial, angiogenic, and osteogenic activities of Ca, P, Co, F, and Sr compound doped titania coatings with different Sr content. Scientific Reports, 2019, 9, 14203. | 1.6 | 27 |
| 4 | Nanorod diameter modulated osteogenic activity of hierarchical micropore/nanorod-patterned coatings via a Wnt/Î²-catenin pathway. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1719-1731. | 1.7 | 19 |
| 5 | Titanium implant functionalized with antimiR-138 delivered cell sheet for enhanced peri-implant bone formation and vascularization. Materials Science and Engineering C, 2018, 89, 52-64. | 3.8 | 24 |
| 6 | F-Doped Micropore/Nanorod Hierarchically Patterned Coatings for Improving Antibacterial and Osteogenic Activities of Bone Implants in Bacteria-Infected Cases. ACS Biomaterials Science and Engineering, 2017, 3, 1437-1450. | 2.6 | 26 |
| 7 | In vivo osseointegration of Ti implants with a strontium-containing nanotubular coating. International Journal of Nanomedicine, 2016, 11, 1003. | 3.3 | 36 |
| 8 | Stability of titania nanotube arrays in aqueous environment and the related factors. Scientific Reports, 2016, 6, 23065. | 1.6 | 23 |
| 9 | Hypoxia-mimicking Co doped TiO2 microporous coating on titanium with enhanced angiogenic and osteogenic activities. Acta Biomaterialia, 2016, 43, 358-368. | 4.1 | 69 |
| 10 | Osteogenic and angiogenic activities of silicon-incorporated TiO2 nanotube arrays. Journal of Materials Chemistry B, 2016, 4, 5548-5559. | 2.9 | 39 |
| 11 | Multifunction Sr, Co and F co-doped microporous coating on titanium of antibacterial, angiogenic and osteogenic activities. Scientific Reports, 2016, 6, 29069. | 1.6 | 61 |
| 12 | Influence of pore size of porous titanium fabricated by vacuum diffusion bonding of titanium meshes on cell penetration and bone ingrowth. Acta Biomaterialia, 2016, 33, 311-321. | 4.1 | 161 |
| 13 | The osteogenic capacity of biomimetic hierarchical micropore/nanorod-patterned Sr-HA coatings with different interrod spacings. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1161-1173. | 1.7 | 52 |
| 14 | Influence of nanotopography on periodontal ligament stem cell functions and cell sheet based periodontal regeneration. International Journal of Nanomedicine, 2015, 10, 4009. | 3.3 | 28 |
| 15 | Biofunctionalization of titanium implant with chitosan/siRNA complex through loading-controllable and time-saving cathodic electrodeposition. Journal of Materials Chemistry B, 2015, 3, 8567-8576. | 2.9 | 21 |
| 16 | Chitosan/siCkip-1 biofunctionalized titanium implant for improved osseointegration in the osteoporotic condition. Scientific Reports, 2015, 5, 10860. | 1.6 | 33 |
| 17 | Nanostructured titaniumâ€“silver coatings with good antibacterial activity and cytocompatibility fabricated by one-step magnetron sputtering. Applied Surface Science, 2015, 355, 32-44. | 3.1 | 56 |
| 18 | Improved Fibroblast Functionalities by Microporous Pattern Fabricated by Microelectromechanical Systems. International Journal of Molecular Sciences, 2014, 15, 12998-13009. | 1.8 | 1 |

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|---|---|---|---|
| 19 | Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. Biomaterials, 2014, 35, 4255-4265. | 5.7 | 319 |
| 20 | The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. Biomaterials, 2014, 35, 4223-4235. | 5.7 | 305 |
| 21 | Fabrication, modification, and biomedical applications of anodized TiO<sub>2</sub> nanotube arrays. RSC Advances, 2014, 4, 17300-17324. | 1.7 | 124 |
| 22 | Non-viral oligonucleotide antimiR-138 delivery to mesenchymal stem cell sheets and the effect on osteogenesis. Biomaterials, 2014, 35, 7734-7749. | 5.7 | 87 |
| 23 | Involvement of N-cadherin/Î²-catenin interaction in the micro/nanotopography induced indirect mechanotransduction. Biomaterials, 2014, 35, 6206-6218. | 5.7 | 48 |
| 24 | Involvement of ILK/ERK1/2 and ILK/p38 pathways in mediating the enhanced osteoblast differentiation by micro/nanotopography. Acta Biomaterialia, 2014, 10, 3705-3715. | 4.1 | 55 |
| 25 | Fabrication of Ni-Ti-O nanotube arrays by anodization of NiTi alloy and their potential applications. Scientific Reports, 2014, 4, 7547. | 1.6 | 52 |
| 26 | MiR-148b laden titanium implant promoting osteogenic differentiation of rat bone marrow mesenchymal stem cells. RSC Advances, 2013, 3, 11292. | 1.7 | 14 |
| 27 | MicroRNA Functionalized Microporous Titanium Oxide Surface by Lyophilization with Enhanced Osteogenic Activity. ACS Applied Materials & Interfaces, 2013, 5, 2733-2744. | 4.0 | 52 |
| 28 | Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. Biomaterials, 2013, 34, 3467-3478. | 5.7 | 269 |
| 29 | Titania Nanotube Coatings on Dental Implants with Enhanced Osteogenic Activity and Anti-Infection Properties. , 2013, , 337-357. | | 1 |
| 30 | The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. Biomaterials, 2013, 34, 19-29. | 5.7 | 212 |
| 31 | The role of integrin-linked kinase/Î²-catenin pathway in the enhanced MG63 differentiation by micro/nano-textured topography. Biomaterials, 2013, 34, 631-640. | 5.7 | 99 |
| 32 | Induction of osteogenic differentiation of stem cells via a lyophilized microRNA reverse transfection formulation on a tissue culture plate. International Journal of Nanomedicine, 2013, 8, 1595. | 3.3 | 9 |
| 33 | The role of the Wnt/Î²-catenin pathway in the effect of implant topography on MG63 differentiation. Biomaterials, 2012, 33, 7993-8002. | 5.7 | 91 |
| 34 | Biomimetic Titanium Alloy with Sparsely Distributed Nanotubes Could Enhance Osteoblast Functions. Advanced Engineering Materials, 2012, 14, B166. | 1.6 | 13 |
| 35 | Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. Biomaterials, 2012, 33, 2629-2641. | 5.7 | 273 |
| 36 | Suppressed primary osteoblast functions on nanoporous titania surface. Journal of Biomedical Materials Research - Part A, 2011, 96A, 100-107. | 2.1 | 22 |

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|---|---|---|---|
| 37 | Antibacterial nano-structured titania coating incorporated with silver nanoparticles. Biomaterials, 2011, 32, 5706-5716. | 5.7 | 670 |
| 38 | Initial osteoblast functions on Tiâ€5Zrâ€3Snâ€5Moâ€15Nb titanium alloy surfaces modified by microarc oxidation. Journal of Biomedical Materials Research - Part A, 2010, 92A, 432-440. | 2.1 | 28 |
| 39 | The role of sterilization in the cytocompatibility of titania nanotubes. Biomaterials, 2010, 31, 2055-2063. | 5.7 | 112 |
| 40 | The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. Biomaterials, 2010, 31, 5072-5082. | 5.7 | 401 |
| 41 | Mechanism of cell repellence on quasi-aligned nanowire arrays on Ti alloy. Biomaterials, 2010, 31, 8341-8349. | 5.7 | 52 |
| 42 | Influence of annealing on cytocompatibility of anodized nanoscale titania surfaces. , 2010, , . | | 0 |
| 43 | Antibacterial coatings on titanium implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 470-480. | 1.6 | 732 |
| 44 | Low-magnitude mechanical vibration may be applied clinically to promote dental implant osseointegration. Medical Hypotheses, 2009, 72, 451-452. | 0.8 | 4 |