

# Kai Li

## List of Publications by Year in descending order

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55  
papers

1,329  
citations

279487

23  
h-index

377514

34  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the Mechanism of Surface Hydrophilicityâ€Modulated Macrophage Polarization. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800675.	3.9	120
2	Microstructure and wear behavior of graphene nanosheets-reinforced zirconia coating. <i>Ceramics International</i> , 2014, 40, 12821-12829.	2.3	83
3	YAP-mediated mechanotransduction regulates osteogenic and adipogenic differentiation of BMSCs on hierarchical structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 344-353.	2.5	59
4	Zinc-modified Calcium Silicate Coatings Promote Osteogenic Differentiation through TGF- $\beta$ 2/Smad Pathway and Osseointegration in Osteopenic Rabbits. <i>Scientific Reports</i> , 2017, 7, 3440.	1.6	56
5	Enhanced osteogenic activity of anatase TiO <sub>2</sub> film: Surface hydroxyl groups induce conformational changes in fibronectin. <i>Materials Science and Engineering C</i> , 2017, 78, 96-104.	3.8	52
6	Incorporation of cerium oxide into hydroxyapatite coating regulates osteogenic activity of mesenchymal stem cell and macrophage polarization. <i>Journal of Biomaterials Applications</i> , 2017, 31, 1062-1076.	1.2	49
7	Covalently immobilised type I collagen facilitates osteoconduction and osseointegration of titanium coated implants. <i>Journal of Orthopaedic Translation</i> , 2016, 5, 16-25.	1.9	44
8	A hydrogenated black TiO <sub>2</sub> coating with excellent effects for photothermal therapy of bone tumor and bone regeneration. <i>Materials Science and Engineering C</i> , 2019, 102, 458-470.	3.8	43
9	Optimized Nanointerface Engineering of Micro/Nanostructured Titanium Implants to Enhance Cellâ€Nanotopography Interactions and Osseointegration. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 969-983.	2.6	42
10	Plasma sprayed cerium oxide coating inhibits H <sub>2</sub> O <sub>2</sub> -induced oxidative stress and supports cell viability. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 100.	1.7	38
11	Fabrication and <i>in vitro</i> evaluation of stable collagen/hyaluronic acid biomimetic multilayer on titanium coatings. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130070.	1.5	37
12	Different response of osteoblastic cells to Mg <sup>2+</sup> , Zn <sup>2+</sup> and Sr <sup>2+</sup> doped calcium silicate coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 56.	1.7	35
13	Chemical stability and antimicrobial activity of plasma sprayed bioactive Ca <sub>2</sub> ZnSi <sub>2</sub> O <sub>7</sub> coating. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2781-2789.	1.7	34
14	&lt;p&gt;Cerium Oxide Nanoparticles Regulate Osteoclast Differentiation Bidirectionally by Modulating the Cellular Production of Reactive Oxygen Species&lt;p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6355-6372.	3.3	32
15	In Vitro and In Vivo Evaluation of Zinc-Modified Caâ€Si-Based Ceramic Coating for Bone Implants. <i>PLoS ONE</i> , 2013, 8, e57564.	1.1	31
16	Immunomodulation effect of a hierarchical macropore/nanosurface on osteogenesis and angiogenesis. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 045006.	1.7	29
17	Sr-doped nanowire modification of Caâ€Si-based coatings for improved osteogenic activities and reduced inflammatory reactions. <i>Nanotechnology</i> , 2018, 29, 084001.	1.3	29
18	The combined effects of nanotopography and Sr ion for enhanced osteogenic activity of bone marrow mesenchymal stem cells (BMSCs). <i>Journal of Biomaterials Applications</i> , 2017, 31, 1135-1147.	1.2	28

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19	The Effects of Cerium Oxide Incorporation in Calcium Silicate Coating on Bone Mesenchymal Stem Cell and Macrophage Responses. <i>Biological Trace Element Research</i> , 2017, 177, 148-158.	1.9	27
20	Improved osteogenesis of boron incorporated calcium silicate coatings via immunomodulatory effects. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 12-24.	2.1	27
21	Antimicrobial Peptide-Loaded Pectolite Nanorods for Enhancing Wound-Healing and Biocidal Activity of Titanium. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28764-28773.	4.0	27
22	Effects of graphene plates' adoption on the microstructure, mechanical properties, and in vivo biocompatibility of calcium silicate coating. <i>International Journal of Nanomedicine</i> , 2015, 10, 3855.	3.3	25
23	Effects of Zn Content on Crystal Structure, Cytocompatibility, Antibacterial Activity, and Chemical Stability in Zn-Modified Calcium Silicate Coatings. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 965-973.	1.6	23
24	The Effects of Cerium Valence States at Cerium Oxide Coatings on the Responses of Bone Mesenchymal Stem Cells and Macrophages. <i>Biological Trace Element Research</i> , 2017, 179, 259-270.	1.9	23
25	Dual enzyme-like activities of transition metal-doped MnO <sub>2</sub> nanocoatings and their dependence on the electronic band structure and ionic dissolution. <i>Applied Surface Science</i> , 2020, 534, 147649.	3.1	23
26	Cerium Oxide-Incorporated Calcium Silicate Coating Protects MC3T3-E1 Osteoblastic Cells from H <sub>2</sub> O <sub>2</sub> -Induced Oxidative Stress. <i>Biological Trace Element Research</i> , 2016, 174, 198-207.	1.9	22
27	Incorporation of Cerium Oxide into Hydroxyapatite Coating Protects Bone Marrow Stromal Cells Against H <sub>2</sub> O <sub>2</sub> -Induced Inhibition of Osteogenic Differentiation. <i>Biological Trace Element Research</i> , 2018, 182, 91-104.	1.9	21
28	Micro/Nano Structural Tantalum Coating for Enhanced Osteogenic Differentiation of Human Bone Marrow Stem Cells. <i>Materials</i> , 2018, 11, 546.	1.3	21
29	The enhanced angiogenic responses to ionic dissolution products from a boron-incorporated calcium silicate coating. <i>Materials Science and Engineering C</i> , 2019, 101, 513-520.	3.8	21
30	Macrophage polarization by plasma sprayed ceria coatings on titanium-based implants: Cerium valence state matters. <i>Applied Surface Science</i> , 2020, 504, 144070.	3.1	21
31	Zn-doped MnO <sub>2</sub> nanocoating with enhanced catalase-mimetic activity and cytocompatibility protects pre-osteoblasts against H <sub>2</sub> O <sub>2</sub> -induced oxidative stress. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 202, 111666.	2.5	18
32	The enhanced bactericidal effect of plasma sprayed zinc-modified calcium silicate coating by the addition of silver. <i>Ceramics International</i> , 2013, 39, 7895-7902.	2.3	17
33	ROCK-regulated synergistic effect of macropore/nanowire topography on cytoskeletal distribution and cell differentiation. <i>RSC Advances</i> , 2015, 5, 101834-101842.	1.7	17
34	Silanized NaCa <sub>2</sub> HSi <sub>3</sub> O <sub>9</sub> nanorods with a reduced pH increase on Ti for improving osteogenesis and angiogenesis <i>in vitro</i> . <i>Journal of Materials Chemistry B</i> , 2020, 8, 691-702.	2.9	17
35	Chemical stability and osteogenic activity of plasma-sprayed boron-modified calcium silicate-based coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 166.	1.7	15
36	Titania nanotube array supported nanoceria with redox cycling stability ameliorates oxidative stress-inhibited osteogenesis. <i>Chemical Engineering Journal</i> , 2021, 415, 128913.	6.6	15

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37	Chemical Stability and Antimicrobial Activity of Plasma-Sprayed Cerium Oxideâ€“Incorporated Calcium Silicate Coating in Dental Implants. <i>Implant Dentistry</i> , 2019, Publish Ahead of Print, 564-570.	1.7	11
38	Black plasma-sprayed Ta <sub>2</sub> O <sub>5</sub> coatings with photothermal effect for bone tumor therapy. <i>Ceramics International</i> , 2018, 44, 12002-12006.	2.3	10
39	Engineering Nanopatterned Structures to Orchestrate Macrophage Phenotype by Cell Shape. <i>Journal of Functional Biomaterials</i> , 2022, 13, 31.	1.8	10
40	Antibacterial mechanism of plasma sprayed Ca <sub>2</sub> ZnSi <sub>2</sub> O <sub>7</sub> coating against <i>Escherichia coli</i> . <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 171-178.	1.7	9
41	Electroactive MnO <sub>2</sub> -poly(3,4-ethylenedioxythiophene) composite nanocoatings enhance osteoblastic electrical stimulation. <i>Applied Surface Science</i> , 2021, 545, 148827.	3.1	8
42	Hierarchical macropore/nano surface regulates stem cell fate through a ROCK-related signaling pathway. <i>RSC Advances</i> , 2017, 7, 8521-8532.	1.7	7
43	Room-temperature facile synthesis of MnO <sub>2</sub> on carbon film via UV-photolysis for supercapacitor. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 16-19.	1.8	7
44	Boron-incorporated micro/nano-topographical calcium silicate coating dictates osteo/angio-genesis and inflammatory response toward enhanced osseointegration. <i>Biological Trace Element Research</i> , 2021, 199, 3801-3816.	1.9	7
45	Controlling Preosteoblast Behavior through Manganese Vacancyâ€“Rich Birnessite with Enhanced Divalent Cation Modulation of Fibronectinâ€“Integrin Interactions. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902127.	1.9	6
46	Visible-light-responsive reduced graphene oxide/g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> composite nanocoating for photoelectric stimulation of neuronal and osteoblastic differentiation. <i>RSC Advances</i> , 2022, 12, 8878-8888.	1.7	6
47	Optimal Zn-Modified Caâ€“Si-Based Ceramic Nanocoating with Zn Ion Release for Osteoblast Promotion and Osteoclast Inhibition in Bone Tissue Engineering. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	1.5	5
48	Synthesis of carbon coated-ceria with improved cytocompatibility. <i>Ceramics International</i> , 2019, 45, 19981-19990.	2.3	5
49	Adhesion Behavior of <i>Escherichia coli</i> on Plasma-Sprayed Zn and Ag Co-incorporated Calcium Silicate Coatings with Varying Surface Roughness. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1428-1435.	1.6	4
50	<i>Zanthoxylum nitidum</i> extract attenuates BMP-2-induced inflammation and hyperpermeability. <i>Bioscience Reports</i> , 2020, 40, .	1.1	4
51	Improved Mechanical Compatibility and Cytocompatibility of Ta/Ti Double-Layered Composite Coating. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1292-1300.	1.6	3
52	Plasma-Sprayed Titanium Patterns for Enhancing Early Cell Responses. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 946-958.	1.6	2
53	A COMPARATIVE STUDY ON VACUUM AND ATMOSPHERIC PLASMA SPRAYED TANTALUM COATINGS FOR THE MODIFICATION OF TITANIUM IMPLANTS. <i>Surface Review and Letters</i> , 2019, 26, 1950048.	0.5	2
54	Preparation and Characterization of Calcium-Magnesium Phosphate Cements. <i>Advanced Materials Research</i> , 0, 1058, 83-86.	0.3	1

#	ARTICLE	IF	CITATIONS
55	Preparation and characteristics of a novel oxygen-releasing coating for improved cell responses in hypoxic environment. Journal of Biomedical Materials Research - Part A, 2021, 109, 248-261.	2.1	1