

Changjian Lin

List of Publications by Year in descending order

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102
papers

7,797
citations

57631

44
h-index

49773

87
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all docs

102
docs citations

102
times ranked

11131
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered double hydroxide (LDH) for multi-functionalized corrosion protection of metals: A review. <i>Journal of Materials Science and Technology</i> , 2022, 102, 232-263.	5.6	112
2	Biomimetic hierarchical implant surfaces promote early osseointegration in osteoporotic rats by suppressing macrophage activation and osteoclastogenesis. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1875-1885.	2.9	5
3	Cell osteogenic bioactivity mediated precisely by varying scaled micro-pits on ordered micro/nano hierarchical structures of titanium. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	1.9	12
4	Hydroxyapatite-modified micro/nanostructured titania surfaces with different crystalline phases for osteoblast regulation. <i>Bioactive Materials</i> , 2021, 6, 1118-1129.	8.6	38
5	Facile fabrication of ZnAl layered double hydroxide film co-intercalated with vanadates and laurates by one-step post modification. <i>Colloids and Interface Science Communications</i> , 2021, 40, 100351.	2.0	9
6	Heterostructured Ternary $\text{In}_2\text{O}_3\text{-Ag-TiO}_2$ Nanotube Arrays for Simulated Sunlight-Driven Photoelectrocatalytic Hydrogen Generation. <i>ChemElectroChem</i> , 2021, 8, 577-584.	1.7	7
7	Highly Stretchable, Adhesive, and Self-Healing Silk Fibroin-Inspired Hydrogels for Wearable Sensors. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002083.	3.9	46
8	Wearable hydration and pH sensor based on protein film for healthcare monitoring. <i>Chemical Papers</i> , 2021, 75, 4927.	1.0	10
9	Construction of ecofriendly anticorrosive composite film ZnAl-LDH by modification of lignin on AA 7075 surface. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1595.	0.8	6
10	Deciphering controversial results of cell proliferation on TiO_2 nanotubes using machine learning. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab025.	1.9	3
11	Machine-learning micropattern manufacturing. <i>Nano Today</i> , 2021, 38, 101152.	6.2	26
12	Effect of physical barrier and anion-exchange process of nitrate-intercalated ZnAl layered double hydroxide films grown on Al on corrosion protection. <i>Surface and Coatings Technology</i> , 2021, 421, 127436.	2.2	19
13	Surface Properties of Octacalcium Phosphate Nanocrystals Are Crucial for Their Bioactivities. <i>ACS Omega</i> , 2021, 6, 25372-25380.	1.6	4
14	Synergistic effect of crystalline phase on protein adsorption and cell behaviors on TiO_2 nanotubes. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3245-3257.	1.6	5
15	Another look at the role of trapped air in cell adhesion on superhydrophobic materials. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 243-251.	1.6	0
16	Optimized Cytocompatibility and Antimicrobial Activity of Octacalcium Phosphate/ μ -Polylysine Composite Coating Electrochemically Codeposited on Medical Titanium. <i>ACS Applied Bio Materials</i> , 2020, 3, 335-345.	2.3	4
17	Enhanced corrosion protection by Al surface immobilization of in-situ grown layered double hydroxide films co-intercalated with inhibitors and low surface energy species. <i>Corrosion Science</i> , 2020, 164, 108340.	3.0	48
18	Effect of size and crystalline phase of TiO_2 nanotubes on cell behaviors: A high throughput study using gradient TiO_2 nanotubes. <i>Bioactive Materials</i> , 2020, 5, 1062-1070.	8.6	36

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19	Improved osteogenic activity and inhibited bacterial biofilm formation on andrographolide-loaded titania nanotubes. <i>Annals of Translational Medicine</i> , 2020, 8, 987-987.	0.7	9
20	Strontium substituted octacalcium phosphate coatings by electrochemical deposition and their dose-dependent bioactivities. <i>Materials Letters</i> , 2020, 272, 127844.	1.3	9
21	Layer-by-layer immobilizing of polydopamine-assisted μ -polylysine and gum Arabic on titanium: Tailoring of antibacterial and osteogenic properties. <i>Materials Science and Engineering C</i> , 2020, 110, 110690.	3.8	23
22	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review (Small Methods 1/2019). <i>Small Methods</i> , 2019, 3, 1800053.	4.6	7
23	A Composite Corrosion Inhibitor of MgAl Layered Double Hydroxides Co-Intercalated with Hydroxide and Organic Anions for Carbon Steel in Simulated Carbonated Concrete Pore Solutions. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3106-C3113.	1.3	24
24	Electrochemical synthesis of perovskite LaFeO ₃ nanoparticle-modified TiO ₂ nanotube arrays for enhanced visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2019, 43, 16506-16514.	1.4	18
25	Insight into the Fabrication of ZnAl Layered Double Hydroxides Intercalated with Organic Anions and Their Corrosion Protection of Steel Reinforced Concrete. <i>Journal of the Electrochemical Society</i> , 2019, 166, C617-C623.	1.3	16
26	Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review. <i>Small Methods</i> , 2019, 3, 1800184.	4.6	118
27	Rational Design of Silver Gradient for Studying Size Effect of Silver Nanoparticles on Contact Killing. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 425-431.	2.6	26
28	3D Heterostructured Ti-Based Bi ₂ MoO ₆ /Pd/TiO ₂ Photocatalysts for High-Efficiency Solar Light Driven Photoelectrocatalytic Hydrogen Generation. <i>ACS Applied Energy Materials</i> , 2019, 2, 558-568.	2.5	23
29	Progress in TiO ₂ nanotube coatings for biomedical applications: a review. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1862-1886.	2.9	121
30	Enhanced Corrosion Resistance of Superhydrophobic Layered Double Hydroxide Films with Long-Term Stability on Al Substrate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15150-15162.	4.0	149
31	Rational Construction of LaFeO ₃ Perovskite Nanoparticle-Modified TiO ₂ Nanotube Arrays for Visible-Light Driven Photocatalytic Activity. <i>Coatings</i> , 2018, 8, 374.	1.2	18
32	Facile Construction of Structural Gradient of TiO ₂ Nanotube Arrays on Medical Titanium for High Throughput Evaluation of Biocompatibility and Antibacterial Property. <i>ACS Applied Bio Materials</i> , 2018, 1, 1056-1065.	2.3	12
33	High-Throughput Screening of Rat Mesenchymal Stem Cell Behavior on Gradient TiO ₂ Nanotubes. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2804-2814.	2.6	30
34	Rapid mussel-inspired synthesis of PDA-Zn-Ag nanofilms on TiO ₂ nanotubes for optimizing the antibacterial activity and biocompatibility by doping polydopamine with zinc at a higher temperature. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 101-109.	2.5	26
35	Effect of construction of TiO ₂ nanotubes on platelet behaviors: Structure-property relationships. <i>Acta Biomaterialia</i> , 2017, 51, 505-512.	4.1	43
36	Nanoparticle-Programmed Surface for Drug Release and Cell Regulation via Reversible Hybridization Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4467-4474.	4.0	10

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37	Recent advances in quantum dot-sensitized solar cells: insights into photoanodes, sensitizers, electrolytes and counter electrodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1217-1231.	2.5	103
38	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11873-11881.	5.2	206
39	Tuning Ag morphology on TiO ₂ nanotube arrays by pulse reverse current deposition for enhanced plasmon-driven visible-light response. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 959-968.	1.5	3
40	High-efficiency photoelectrochemical hydrogen generation enabled by p-type semiconductor nanoparticle-decorated n-type nanotube arrays. <i>RSC Advances</i> , 2017, 7, 17551-17558.	1.7	13
41	Enhanced visible light photoelectrocatalytic activity over Cu _x Zn _{1-x} In ₂ S ₄ @TiO ₂ nanotube array hetero-structures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1292-1299.	5.2	37
42	Antibacterial and cytocompatible AgNPs constructed with the assistance of Mefp-1 for orthopaedic implants. <i>RSC Advances</i> , 2017, 7, 38434-38443.	1.7	10
43	Multifunctional inhibition based on layered double hydroxides to comprehensively control corrosion of carbon steel in concrete. <i>Corrosion Science</i> , 2017, 126, 166-179.	3.0	131
44	A further insight into the adsorption mechanism of protein on hydroxyapatite by FTIR-ATR spectrometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 527-531.	2.0	23
45	Fe ³⁺ -Doped TiO ₂ Nanotube Arrays on Ti-Fe Alloys for Enhanced Photoelectrocatalytic Activity. <i>Nanomaterials</i> , 2016, 6, 107.	1.9	22
46	Inhibitory effect of superhydrophobicity on silver release and antibacterial properties of superhydrophobic Ag/TiO ₂ nanotubes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1004-1012.	1.6	34
47	A facile construction of gradient micro-patterned OCP coatings on medical titanium for high throughput evaluation of biocompatibility. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4017-4024.	2.9	10
48	Graphical analysis of mammalian cell adhesion in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 211-219.	2.5	3
49	Plasmonic Photocatalysis: Plasmon-Mediated Solar Energy Conversion via Photocatalysis in Noble Metal/Semiconductor Composites (<i>Adv. Sci.</i> 6/2016). <i>Advanced Science</i> , 2016, 3, .	5.6	2
50	Interfacial engineering with amino-functionalized graphene for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13482-13487.	5.2	80
51	Interface engineering via an insulating polymer for highly efficient and environmentally stable perovskite solar cells. <i>Chemical Communications</i> , 2016, 52, 11355-11358.	2.2	58
52	Nonepitaxial growth of uniform and precisely size-tunable core/shell nanoparticles and their enhanced plasmon-driven photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7190-7199.	5.2	85
53	Room temperature synthesis of CdS nanoparticle-decorated TiO ₂ nanotube arrays by electrodeposition with improved visible-light photoelectrochemical properties. <i>Electrochemistry Communications</i> , 2016, 63, 56-59.	2.3	22
54	TiO ₂ -Based Nanomaterials: Design, Synthesis, and Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-3.	1.5	7

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55	Antimicrobial activity and cytocompatibility of silver nanoparticles coated catheters via a biomimetic surface functionalization strategy. <i>International Journal of Nanomedicine</i> , 2015, 10, 7241.	3.3	67
56	Tumor-targeted co-delivery of mitomycin C and 10-hydroxycamptothecin via micellar nanocarriers for enhanced anticancer efficacy. <i>RSC Advances</i> , 2015, 5, 23022-23033.	1.7	9
57	Preparation of hollow Co ₉ S ₈ nanoneedle arrays as effective counter electrodes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6311-6314.	5.2	51
58	Unconventional Route to Hairy Plasmonic/Semiconductor Core/Shell Nanoparticles with Precisely Controlled Dimensions and Their Use in Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015, 27, 5271-5278.	3.2	76
59	Effect of Octacalcium-Phosphate-Modified Micro/Nanostructured Titania Surfaces on Osteoblast Response. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14384-14396.	4.0	62
60	Electrochemical construction of a bio-inspired micro/nano-textured structure with cell-sized microhole arrays on biomedical titanium to enhance bioactivity. <i>Electrochimica Acta</i> , 2015, 174, 1149-1159.	2.6	36
61	Enhanced photoelectrocatalytic hydrogen production activity of SrTiO ₃ @TiO ₂ hetero-nanoparticle modified TiO ₂ nanotube arrays. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9704-9712.	3.8	44
62	In situ growth of CuS and Cu _{1.8} S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9595-9600.	5.2	132
63	Heterojunctions: One-Dimensional Densely Aligned Perovskite-Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity (Small 12/2015). <i>Small</i> , 2015, 11, 1435-1435.	5.2	0
64	Acid Orange II degradation through a heterogeneous Fenton-like reaction using Fe@TiO ₂ nanotube arrays as a photocatalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8537-8544.	5.2	80
65	Efficient visible light-induced photoelectrocatalytic hydrogen production using CdS sensitized TiO ₂ nanorods on TiO ₂ nanotube arrays. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22218-22226.	5.2	72
66	Reduced platelet adhesion and improved corrosion resistance of superhydrophobic TiO ₂ -nanotube-coated 316L stainless steel. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 134-141.	2.5	101
67	One-Dimensional Densely Aligned Perovskite-Decorated Semiconductor Heterojunctions with Enhanced Photocatalytic Activity. <i>Small</i> , 2015, 11, 1436-1442.	5.2	86
68	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2014, 24, 6691-6699.	7.8	104
69	Inorganic-modified semiconductor TiO ₂ nanotube arrays for photocatalysis. <i>Energy and Environmental Science</i> , 2014, 7, 2182-2202.	15.6	461
70	High efficiency perovskite solar cells: from complex nanostructure to planar heterojunction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5994-6003.	5.2	246
71	An ultrasound-assisted deposition of NiO nanoparticles on TiO ₂ nanotube arrays for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8223.	5.2	82
72	Quantum-Dot Sensitized Solar Cells Employing Hierarchical Cu ₂ S Microspheres Wrapped by Reduced Graphene Oxide Nanosheets as Effective Counter Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301564.	10.2	119

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73	A facile hydrothermal deposition of ZnFe ₂ O ₄ nanoparticles on TiO ₂ nanotube arrays for enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12082.	5.2	119
74	Bioinspired Patterning with Extreme Wettability Contrast on TiO ₂ Nanotube Array Surface: A Versatile Platform for Biomedical Applications. <i>Small</i> , 2013, 9, 2945-2953.	5.2	159
75	Nanotube Arrays: Bioinspired Patterning with Extreme Wettability Contrast on TiO ₂ Nanotube Array Surface: A Versatile Platform for Biomedical Applications (<i>Small</i> 17/2013). <i>Small</i> , 2013, 9, 3004-3004.	5.2	0
76	Heterojunction photoelectrodes composed of Cu ₂ O-loaded TiO ₂ nanotube arrays with enhanced photoelectrochemical and photoelectrocatalytic activities. <i>Energy and Environmental Science</i> , 2013, 6, 1211.	15.6	483
77	Optimized porous rutile TiO ₂ nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1615.	15.6	160
78	Solar Cells: Hierarchically Structured Nanotubes for Highly Efficient Dye-Sensitized Solar Cells (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlck 10 Tf 5</i>	11.1	1
79	Construction of Transparent Superhydrophilic/Superhydrophobic Micropatterns for High-Throughput Living Cell Imaging. <i>Science of Advanced Materials</i> , 2013, 5, 494-498.	0.1	3
80	High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO ₂ Nanotube Arrays. <i>Journal of the American Chemical Society</i> , 2012, 134, 15720-15723.	6.6	571
81	Transparent superhydrophobic/superhydrophilic TiO ₂ -based coatings for self-cleaning and anti-fogging. <i>Journal of Materials Chemistry</i> , 2012, 22, 7420.	6.7	441
82	Multi-functional hybrid protonated titanate nanobelts with tunable wettability. <i>Soft Matter</i> , 2011, 7, 6313.	1.2	28
83	Al ₂ O ₃ -TiO ₂ composite oxide films on etched aluminum foil fabricated by electrodeposition and anodization. <i>Science China Chemistry</i> , 2011, 54, 1558-1564.	4.2	10
84	SERS study of Ag nanoparticles electrodeposited on patterned TiO ₂ nanotube films. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 986-991.	1.2	42
85	Effect of Superhydrophobic Surface of Titanium on <i>Staphylococcus aureus</i> Adhesion. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-8.	1.5	106
86	Study on interaction between macrocell and microcell in the early corrosion process of reinforcing steel in concrete. <i>Science China Technological Sciences</i> , 2010, 53, 1285-1289.	2.0	5
87	Electrochemically multi-anodized TiO ₂ nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. <i>Electrochimica Acta</i> , 2010, 55, 4776-4782.	2.6	132
88	Selective formation of ordered arrays of octacalcium phosphate ribbons on TiO ₂ nanotube surface by template-assisted electrodeposition. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 117-122.	2.5	51
89	A novel electrochemical strategy for improving blood compatibility of titanium-based biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 309-313.	2.5	106
90	Controllable construction of ZnO/TiO ₂ patterning nanostructures by superhydrophilic/superhydrophobic templates. <i>New Journal of Chemistry</i> , 2010, 34, 44-51.	1.4	44

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91	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. <i>Journal of Materials Chemistry</i> , 2010, 20, 10169.	6.7	48
92	Fabrication of uniform Ag/TiO ₂ nanotube array structures with enhanced photoelectrochemical performance. <i>New Journal of Chemistry</i> , 2010, 34, 1335.	1.4	181
93	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. <i>Advanced Materials</i> , 2009, 21, 3799-3803.	11.1	439
94	Photoelectrochemical Study of Corrosion Resisting Property of Cupronickel B10 in Simulated Cooling Water. <i>Chinese Journal of Chemistry</i> , 2009, 27, 253-257.	2.6	0
95	Ultrasound aided photochemical synthesis of Ag loaded TiO ₂ nanotube arrays to enhance photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2009, 171, 1045-1050.	6.5	223
96	Controllable incorporation of CdS nanoparticles into TiO ₂ nanotubes for highly enhancing the photocatalytic response to visible light. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2148-2155.	0.8	20
97	Effects of structure and composition of the CaP composite coatings on apatite formation and bioactivity in simulated body fluid. <i>Applied Surface Science</i> , 2009, 255, 4074-4081.	3.1	37
98	Electrophoretic deposition of HA/MWNTs composite coating for biomaterial applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2569-2574.	1.7	51
99	Superhydrophilic/superhydrophobic micropattern on TiO ₂ nanotube films by photocatalytic lithography. <i>Electrochemistry Communications</i> , 2008, 10, 387-391.	2.3	147
100	A facile method for synthesis of Ag/TiO ₂ nanostructures. <i>Materials Letters</i> , 2008, 62, 3688-3690.	1.3	59
101	Markedly Controllable Adhesion of Superhydrophobic Spongelike Nanostructure TiO ₂ Films. <i>Langmuir</i> , 2008, 24, 3867-3873.	1.6	182
102	Effects of the Structure of TiO ₂ Nanotube Array on Ti Substrate on Its Photocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2006, 153, D123.	1.3	200