Yu-Peng Lu

List of Publications by Year
in descending order

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37 papers	849 citations	516710 16 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	952 citing authors

#	Article	IF	Citations
1	Interleukin-4 assisted calcium-strontium-zinc-phosphate coating induces controllable macrophage polarization and promotes osseointegration on titanium implant. Materials Science and Engineering C, 2021, 118, 111512.	7.3	41
2	Investigation on [OH^{â^'}]-responsive systems for construction of one-dimensional hydroxyapatite via a solvothermal method. New Journal of Chemistry, 2021, 45, 358-364.	2.8	11
3	Investigation of various fatty acid surfactants on the microstructure of flexible hydroxyapatite nanofibers. CrystEngComm, 2021, 23, 7049-7055.	2.6	6
4	Investigation of nature of starting materials on the construction of hydroxyapatite 1D/3D morphologies. Materials Science and Engineering C, 2020, 108, 110408.	7.3	13
5	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. Science Advances, 2020, 6, .	10.3	61
6	Controlled Synthesis of Hydroxyapatite Nanomaterials Regulated by Different Phosphorus Sources. Crystals, 2020, 10, 678.	2.2	7
7	Efficacy of concentrated growth factors combined with mineralized collagen on quality of life and bone reconstruction of guided bone regeneration. International Journal of Energy Production and Management, 2020, 7, 313-320.	3.7	23
8	In Situ TEM Investigation on the Thermal Stability of Hydroxyapatite Nanobelts. Microscopy and Microanalysis, 2020, 26, 1426-1426.	0.4	0
9	In Situ TEM Visualization on the Super Flexibility of Multi-layered Hydroxyapatite Nanobelts with Antibacterial Property. Microscopy and Microanalysis, 2020, 26, 1428-1429.	0.4	0
10	In situ Liquid Cell Transmission Electron Microscopy Study of Hydroxyapatite Mineralization Process. Microscopy and Microanalysis, 2019, 25, 1502-1502.	0.4	1
11	In situ visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. CrystEngComm, 2018, 20, 1031-1036.	2.6	7
12	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. CrystEngComm, 2018, 20, 1304-1312.	2.6	15
13	In Situ Transmission Electron Microscopy Explores a New Nanoscale Pathway for Direct Gypsum Formation in Aqueous Solution. ACS Applied Nano Materials, 2018, 1, 5430-5440.	5.0	22
14	Transformation of the surface compositions of titanium during alkali and heat treatment at different vacuum degrees. New Journal of Chemistry, 2018, 42, 11991-12000.	2.8	1
15	A review on the application of inorganic nanoparticles in chemical surface coatings on metallic substrates. RSC Advances, 2017, 7, 7531-7539.	3.6	54
16	In-situ preparation of scholzite conversion coatings on titanium and Ti-6Al-4V for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2017, 153, 291-299.	5.0	25
17	Hydroxyapatite Fibers: A Review of Synthesis Methods. Jom, 2017, 69, 1354-1360.	1.9	21
18	Chemical conversion of zincâ€“zinc phosphate composite coating on TC4 by galvanic coupling. New Journal of Chemistry, 2017, 41, 14403-14408.	2.8	4

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19	A bioactive coating with submicron-sized titania crystallites fabricated by induction heating of titanium after tensile deformations. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 105-113.	3.1	5
20	Rapid Hydrothermal Synthesis of Submillimeter Ultralong Flexible Hydroxyapatite Fiber Using Different pH Regulators. Acta Metallurgica Sinica (English Letters), 2016, 29, 609-613.	2.9	8
21	One-step hydrothermal synthesis of carbonated hydroxyapatite porous microspheres with a large and uniform size regulated by <scp>l</scp>-glutamic acid. CrystEngComm, 2016, 18, 5876-5884.	2.6	26
22	Formation initiation and structural changes of phosphate conversion coating on titanium induced by galvanic coupling and Fe²⁺ ions. RSC Advances, 2016, 6, 75365-75375.	3.6	18
23	Formation and corrosion resistance of a phosphate chemical conversion coating on medium carbon low alloy steel. New Journal of Chemistry, 2016, 40, 1347-1353.	2.8	28
24	Dynamic studies of solution-based reactions using operando TEM. Microscopy and Microanalysis, 2015, 21, 263-264.	0.4	0
25	Influence of processing time on the phase, microstructure and electrochemical properties of hopeite coating on stainless steel by chemical conversion method. New Journal of Chemistry, 2015, 39, 5813-5822.	2.8	17
26	Rapid early formation and crystal refinement of chemical conversion hopeite coatings induced by substrate sandblasting. New Journal of Chemistry, 2015, 39, 7942-7947.	2.8	4
27	Phosphate chemical conversion coatings on metallic substrates for biomedical application: A review. Materials Science and Engineering C, 2015, 47, 97-104.	7.3	115
28	Electron Beam Induced Phase Transformation in Zinc Phosphate. Microscopy and Microanalysis, 2014, 20, 1660-1661.	0.4	0
29	Acoustic emission study of the plastic deformation of quenched and partitioned 35CrMnSiA steel. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 1196-1204.	4.9	5
30	PREPARATION OF HYDROXYAPATITE COATING ON THE SURFACE OF HOLLOW GLASS MICROSPHERES USING A BIOMIMETIC PROCESS. Surface Review and Letters, 2014, 21, 1450063.	1.1	1
31	Ultrasonic Induced Rapid Formation and Crystal Refinement of Chemical Conversed Hopeite Coating on Titanium. Journal of Physical Chemistry C, 2014, 118, 1910-1918.	3.1	42
32	Preparation and properties of plasma electrolytic oxidation coating on sandblasted pure titanium by a combination treatment. Materials Science and Engineering C, 2014, 42, 657-664.	7.3	32
33	Phase Stability of Residual Austenite in 60Si2Mn Steels Treated by Quenching and Partitioning. Journal of Iron and Steel Research International, 2011, 18, 70-74.	2.8	13
34	Surface nanocrystallization of hydroxyapatite coating. Acta Biomaterialia, 2008, 4, 1865-1872.	8.3	34
35	Fabrication and characterization of porous hydroxyapatite microspheres by spray-drying method. Frontiers of Materials Science in China, 2008, 2, 95-98.	0.5	13
36	EFFECT OF PLASMA SPRAYING PARAMETERS ON THE SPRAYED HYDROXYAPATITE COATING. Surface Review and Letters, 2007, 14, 179-184.	1.1	2

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37	Plasma-sprayed hydroxyapatite+titania composite bond coat for hydroxyapatite coating on titanium substrate. Biomaterials, 2004, 25, 4393-4403.	11.4	174