

Yu-Peng Lu

List of Publications by Year in descending order

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37
papers

849
citations

516710

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38
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-sprayed hydroxyapatite+titanium composite bond coat for hydroxyapatite coating on titanium substrate. <i>Biomaterials</i> , 2004, 25, 4393-4403.	11.4	174
2	Phosphate chemical conversion coatings on metallic substrates for biomedical application: A review. <i>Materials Science and Engineering C</i> , 2015, 47, 97-104.	7.3	115
3	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. <i>Science Advances</i> , 2020, 6, .	10.3	61
4	A review on the application of inorganic nanoparticles in chemical surface coatings on metallic substrates. <i>RSC Advances</i> , 2017, 7, 7531-7539.	3.6	54
5	Ultrasonic Induced Rapid Formation and Crystal Refinement of Chemical Converted Hopeite Coating on Titanium. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1910-1918.	3.1	42
6	Interleukin-4 assisted calcium-strontium-zinc-phosphate coating induces controllable macrophage polarization and promotes osseointegration on titanium implant. <i>Materials Science and Engineering C</i> , 2021, 118, 111512.	7.3	41
7	Surface nanocrystallization of hydroxyapatite coating. <i>Acta Biomaterialia</i> , 2008, 4, 1865-1872.	8.3	34
8	Preparation and properties of plasma electrolytic oxidation coating on sandblasted pure titanium by a combination treatment. <i>Materials Science and Engineering C</i> , 2014, 42, 657-664.	7.3	32
9	Formation and corrosion resistance of a phosphate chemical conversion coating on medium carbon low alloy steel. <i>New Journal of Chemistry</i> , 2016, 40, 1347-1353.	2.8	28
10	One-step hydrothermal synthesis of carbonated hydroxyapatite porous microspheres with a large and uniform size regulated by glutamic acid. <i>CrystEngComm</i> , 2016, 18, 5876-5884.	2.6	26
11	In-situ preparation of scholzite conversion coatings on titanium and Ti-6Al-4V for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 291-299.	5.0	25
12	Efficacy of concentrated growth factors combined with mineralized collagen on quality of life and bone reconstruction of guided bone regeneration. <i>International Journal of Energy Production and Management</i> , 2020, 7, 313-320.	3.7	23
13	In Situ Transmission Electron Microscopy Explores a New Nanoscale Pathway for Direct Gypsum Formation in Aqueous Solution. <i>ACS Applied Nano Materials</i> , 2018, 1, 5430-5440.	5.0	22
14	Hydroxyapatite Fibers: A Review of Synthesis Methods. <i>Jom</i> , 2017, 69, 1354-1360.	1.9	21
15	Formation initiation and structural changes of phosphate conversion coating on titanium induced by galvanic coupling and Fe ²⁺ ions. <i>RSC Advances</i> , 2016, 6, 75365-75375.	3.6	18
16	Influence of processing time on the phase, microstructure and electrochemical properties of hopeite coating on stainless steel by chemical conversion method. <i>New Journal of Chemistry</i> , 2015, 39, 5813-5822.	2.8	17
17	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. <i>CrystEngComm</i> , 2018, 20, 1304-1312.	2.6	15
18	Fabrication and characterization of porous hydroxyapatite microspheres by spray-drying method. <i>Frontiers of Materials Science in China</i> , 2008, 2, 95-98.	0.5	13

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19	Phase Stability of Residual Austenite in 60Si2Mn Steels Treated by Quenching and Partitioning. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 70-74.	2.8	13
20	Investigation of nature of starting materials on the construction of hydroxyapatite 1D/3D morphologies. <i>Materials Science and Engineering C</i> , 2020, 108, 110408.	7.3	13
21	Investigation on [OH ⁺]-responsive systems for construction of one-dimensional hydroxyapatite <i>via</i> a solvothermal method. <i>New Journal of Chemistry</i> , 2021, 45, 358-364.	2.8	11
22	Rapid Hydrothermal Synthesis of Submillimeter Ultralong Flexible Hydroxyapatite Fiber Using Different pH Regulators. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 609-613.	2.9	8
23	<i>In situ</i> visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. <i>CrystEngComm</i> , 2018, 20, 1031-1036.	2.6	7
24	Controlled Synthesis of Hydroxyapatite Nanomaterials Regulated by Different Phosphorus Sources. <i>Crystals</i> , 2020, 10, 678.	2.2	7
25	Investigation of various fatty acid surfactants on the microstructure of flexible hydroxyapatite nanofibers. <i>CrystEngComm</i> , 2021, 23, 7049-7055.	2.6	6
26	Acoustic emission study of the plastic deformation of quenched and partitioned 35CrMnSiA steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 1196-1204.	4.9	5
27	A bioactive coating with submicron-sized titania crystallites fabricated by induction heating of titanium after tensile deformations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 105-113.	3.1	5
28	Rapid early formation and crystal refinement of chemical conversion hopeite coatings induced by substrate sandblasting. <i>New Journal of Chemistry</i> , 2015, 39, 7942-7947.	2.8	4
29	Chemical conversion of zinc-zinc phosphate composite coating on TC4 by galvanic coupling. <i>New Journal of Chemistry</i> , 2017, 41, 14403-14408.	2.8	4
30	EFFECT OF PLASMA SPRAYING PARAMETERS ON THE SPRAYED HYDROXYAPATITE COATING. <i>Surface Review and Letters</i> , 2007, 14, 179-184.	1.1	2
31	PREPARATION OF HYDROXYAPATITE COATING ON THE SURFACE OF HOLLOW GLASS MICROSPHERES USING A BIOMIMETIC PROCESS. <i>Surface Review and Letters</i> , 2014, 21, 1450063.	1.1	1
32	Transformation of the surface compositions of titanium during alkali and heat treatment at different vacuum degrees. <i>New Journal of Chemistry</i> , 2018, 42, 11991-12000.	2.8	1
33	<i>In situ</i> Liquid Cell Transmission Electron Microscopy Study of Hydroxyapatite Mineralization Process. <i>Microscopy and Microanalysis</i> , 2019, 25, 1502-1502.	0.4	1
34	Electron Beam Induced Phase Transformation in Zinc Phosphate. <i>Microscopy and Microanalysis</i> , 2014, 20, 1660-1661.	0.4	0
35	Dynamic studies of solution-based reactions using operando TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 263-264.	0.4	0
36	<i>In Situ</i> TEM Investigation on the Thermal Stability of Hydroxyapatite Nanobelts. <i>Microscopy and Microanalysis</i> , 2020, 26, 1426-1426.	0.4	0

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37	In Situ TEM Visualization on the Super Flexibility of Multi-layered Hydroxyapatite Nanobelts with Antibacterial Property. <i>Microscopy and Microanalysis</i> , 2020, 26, 1428-1429.	0.4	0