

Loganathan Mohan

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,263
citations

361413
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43
all docs

43
docs citations

43
times ranked

1290
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of size and interparticle distance of nanoparticles on the formation of bubbles induced by nanosecond laser. Surfaces and Interfaces, 2022, 30, 101820.	3.0	3
2	Controlled and localized drug delivery using Titania nanotubes. Materials Today Communications, 2022, 32, 103843.	1.9	3
3	Fabrication of TiO ₂ microspikes for highly efficient intracellular delivery by pulse laser-assisted photoporation. RSC Advances, 2021, 11, 9336-9348.	3.6	18
4	Nanomaterials: An Introduction. Springer Series in Biomaterials Science and Engineering, 2021, , 1-27.	1.0	10
5	Tailoring the Surface Functionalities of Titania Nanotubes for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2021, , 513-552.	1.0	2
6	Can titanium oxide nanotubes facilitate intracellular delivery by laser-assisted photoporation?. Applied Surface Science, 2021, 543, 148815.	6.1	14
7	Electrochemical fabrication of TiO ₂ micro-flowers for an efficient intracellular delivery using nanosecond light pulse. Materials Chemistry and Physics, 2021, 267, 124604.	4.0	16
8	Effect of Molybdenum Content on Mechanical and Tribological Properties of Diamond-Like Carbon Coatings over Titanium Ti-21S Alloy. Journal of Carbon Research, 2021, 7, 1.	2.7	5
9	Infrared Pulse Laser-Activated Highly Efficient Intracellular Delivery Using Titanium Microdish Device. ACS Biomaterials Science and Engineering, 2020, 6, 5645-5652.	5.2	33
10	Physical approaches for drug delivery. , 2020, , 161-190.		18
11	Formation of nanostructures on magnesium alloy by anodization for potential biomedical applications. Materials Today Communications, 2020, 25, 101403.	1.9	10
12	Effect of Electrolyte Temperature and Anodization Time on Formation of TiO ₂ Nanotubes for Biomedical Applications. Materials Today Communications, 2020, 23, 101103.	1.9	40
13	Electrochemical Behavior of Biomedical Titanium Alloys Coated with Diamond Carbon in Hanks's™ Solution. Journal of Materials Engineering and Performance, 2018, 27, 1635-1641.	2.5	16
14	Corrosion and wear resistance properties of multilayered diamond-like carbon nanocomposite coating. Surface and Interface Analysis, 2018, 50, 265-276.	1.8	25
15	Carbon plasma immersion ion implantation and DLC deposition on Ni~Ti alloy. Materials and Manufacturing Processes, 2018, 33, 1121-1127.	4.7	12
16	In Vitro Corrosion Behaviour of Ti~6Al~4V and 316L Stainless Steel Alloys for Biomedical Implant Applications. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	2.6	44
17	Single-cell electroporation: current trends, applications and future prospects. Journal of Micromechanics and Microengineering, 2018, 28, 123002.	2.6	54
18	Mechanoporation: Toward Single Cell Approaches. , 2018, , 1-29.		5

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19	Current Trends of Microfluidic Single-Cell Technologies. International Journal of Molecular Sciences, 2018, 19, 3143.	4.1	63
20	Biocompatible response of hydroxyapatite coated on near- β^2 titanium alloys by E-beam evaporation method. Biocatalysis and Agricultural Biotechnology, 2018, 15, 364-369.	3.1	14
21	Corrosion, wear, and cell culture studies of oxygen ion implanted Niâ€Ti alloy. Surface and Interface Analysis, 2017, 49, 828-836.	1.8	6
22	Corrosion and Wear Properties of Ti/Tetrahedral Amorphous Carbon Multilayered Coating. Journal of Bio- and Tribo-Corrosion, 2017, 3, 1.	2.6	14
23	Corrosion and Wear Behaviors of Cr-Doped Diamond-Like Carbon Coatings. Journal of Materials Engineering and Performance, 2017, 26, 3633-3647.	2.5	33
24	Effect of surface finishing on the formation of nanostructure and corrosion behavior of Niâ€Ti alloy. Surface and Interface Analysis, 2017, 49, 450-456.	1.8	12
25	Suture materials â€ Current and emerging trends. Journal of Biomedical Materials Research - Part A, 2016, 104, 1544-1559.	4.0	122
26	Drug release characteristics of quercetin-loaded TiO ₂ nanotubes coated with chitosan. International Journal of Biological Macromolecules, 2016, 93, 1633-1638.	7.5	54
27	Effect of oxygen plasma immersion ion implantation on the formation of nanostructures over Niâ€Ti alloy. RSC Advances, 2016, 6, 74493-74499.	3.6	10
28	Effect of PostNitride Annealing on Wear and Corrosion Behavior of Titanium Alloy Ti-6Al-4V. Journal of Materials Engineering and Performance, 2016, 25, 4416-4424.	2.5	4
29	In-Vitro Biocompatibility Studies of Plasma-Nitrided Titanium Alloy β^2 -21S Using Fibroblast Cells. Journal of Materials Engineering and Performance, 2016, 25, 1508-1514.	2.5	13
30	Electrochemical behavior and effect of heat treatment on morphology, crystalline structure of self-organized TiO ₂ nanotube arrays on Tiâ€6Alâ€7Nb for biomedical applications. Materials Science and Engineering C, 2015, 50, 394-401.	7.3	70
31	Effect of plasma nitriding on structure and biocompatibility of self-organised TiO ₂ nanotubes on Tiâ€6Alâ€7Nb. RSC Advances, 2015, 5, 41763-41771.	3.6	24
32	Corrosion behaviour of tetrahedral amorphous carbon (ta-C) filled titania nano tubes. RSC Advances, 2015, 5, 93131-93138.	3.6	11
33	Electrochemical behaviour and bioactivity of self-organized TiO ₂ nanotube arrays on Ti-6Al-4V in Hanksâ€™ solution for biomedical applications. Electrochimica Acta, 2015, 155, 411-420.	5.2	66
34	Electrochemical studies and growth of apatite on molybdenum doped DLC coatings on titanium alloy β^2 -21S. Applied Surface Science, 2014, 296, 86-94.	6.1	33
35	Investigation of electrochemical behavior of nitrogen implanted Tiâ€15Moâ€3Nbâ€3Al alloy in Hankâ€™s solution. Journal of Materials Science: Materials in Medicine, 2013, 24, 623-633.	3.6	19
36	Wear and corrosion behavior of oxygen implanted biomedical titanium alloy Tiâ€13Nbâ€13Zr. Applied Surface Science, 2013, 282, 281-290.	6.1	59

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37	In Vitro Corrosion Behavior and Apatite Growth of Oxygen Plasma Ion Implanted Titanium Alloy β -21S. Journal of Materials Engineering and Performance, 2013, 22, 3507-3516.	2.5	24
38	Effect of Gas Composition on Nitriding and Wear Behavior of Nitrided Titanium Alloy Ti-15V-3Cr-3Al-3Sn. Journal of Materials Engineering and Performance, 2013, 22, 2623-2633.	2.5	11
39	Effect of gas composition on corrosion behavior and growth of apatite on plasma nitrided titanium alloy Beta-21S. Applied Surface Science, 2013, 268, 288-296.	6.1	30
40	Wear and Corrosion Behavior of Zr-Doped DLC on Ti-13Zr-13Nb Biomedical Alloy. Journal of Materials Engineering and Performance, 2013, 22, 283-293.	2.5	34
41	Influence of zirconium doping on the growth of apatite and corrosion behavior of DLC-coated titanium alloy Ti-13Nb-13Zr. Surface and Interface Analysis, 2013, 45, 1785-1791.	1.8	21
42	Corrosion behavior of titanium alloy Beta-21S coated with diamond like carbon in Hank's solution. Applied Surface Science, 2012, 258, 6331-6340.	6.1	44
43	Electrophoretic deposition of nanocomposite (HAp + TiO ₂) on titanium alloy for biomedical applications. Ceramics International, 2012, 38, 3435-3443.	4.8	144