

# Loganathan Mohan

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,263  
citations

361045

20  
h-index

360668

35  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrophoretic deposition of nanocomposite (HAp + TiO <sub>2</sub> ) on titanium alloy for biomedical applications. <i>Ceramics International</i> , 2012, 38, 3435-3443.	2.3	144
2	Suture materials – Current and emerging trends. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1544-1559.	2.1	122
3	Electrochemical behavior and effect of heat treatment on morphology, crystalline structure of self-organized TiO <sub>2</sub> nanotube arrays on Ti-6Al-7Nb for biomedical applications. <i>Materials Science and Engineering C</i> , 2015, 50, 394-401.	3.8	70
4	Electrochemical behaviour and bioactivity of self-organized TiO <sub>2</sub> nanotube arrays on Ti-6Al-4V in Hanks™ solution for biomedical applications. <i>Electrochimica Acta</i> , 2015, 155, 411-420.	2.6	66
5	Current Trends of Microfluidic Single-Cell Technologies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3143.	1.8	63
6	Wear and corrosion behavior of oxygen implanted biomedical titanium alloy Ti-13Nb-13Zr. <i>Applied Surface Science</i> , 2013, 282, 281-290.	3.1	59
7	Drug release characteristics of quercetin-loaded TiO <sub>2</sub> nanotubes coated with chitosan. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1633-1638.	3.6	54
8	Single-cell electroporation: current trends, applications and future prospects. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 123002.	1.5	54
9	Corrosion behavior of titanium alloy Beta-21S coated with diamond like carbon in Hank's solution. <i>Applied Surface Science</i> , 2012, 258, 6331-6340.	3.1	44
10	In Vitro Corrosion Behaviour of Ti-6Al-4V and 316L Stainless Steel Alloys for Biomedical Implant Applications. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018, 4, 1.	1.2	44
11	Effect of Electrolyte Temperature and Anodization Time on Formation of TiO <sub>2</sub> Nanotubes for Biomedical Applications. <i>Materials Today Communications</i> , 2020, 23, 101103.	0.9	40
12	Wear and Corrosion Behavior of Zr-Doped DLC on Ti-13Zr-13Nb Biomedical Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 283-293.	1.2	34
13	Electrochemical studies and growth of apatite on molybdenum doped DLC coatings on titanium alloy $\beta$ -21S. <i>Applied Surface Science</i> , 2014, 296, 86-94.	3.1	33
14	Corrosion and Wear Behaviors of Cr-Doped Diamond-Like Carbon Coatings. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 3633-3647.	1.2	33
15	Infrared Pulse Laser-Activated Highly Efficient Intracellular Delivery Using Titanium Microdish Device. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5645-5652.	2.6	33
16	Effect of gas composition on corrosion behavior and growth of apatite on plasma nitrided titanium alloy Beta-21S. <i>Applied Surface Science</i> , 2013, 268, 288-296.	3.1	30
17	Corrosion and wear resistance properties of multilayered diamond-like carbon nanocomposite coating. <i>Surface and Interface Analysis</i> , 2018, 50, 265-276.	0.8	25
18	In Vitro Corrosion Behavior and Apatite Growth of Oxygen Plasma Ion Implanted Titanium Alloy $\beta$ -21S. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3507-3516.	1.2	24

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19	Effect of plasma nitriding on structure and biocompatibility of self-organised TiO <sub>2</sub> nanotubes on Ti-6Al-7Nb. RSC Advances, 2015, 5, 41763-41771.	1.7	24
20	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.	0.8	21
21	Investigation of electrochemical behavior of nitrogen implanted Ti-15Mo-3Nb-3Al alloy in Hank's solution. Journal of Materials Science: Materials in Medicine, 2013, 24, 623-633.	1.7	19
22	Physical approaches for drug delivery. , 2020, , 161-190.		18
23	Fabrication of TiO <sub>2</sub> microspikes for highly efficient intracellular delivery by pulse laser-assisted photoporation. RSC Advances, 2021, 11, 9336-9348.	1.7	18
24	Electrochemical Behavior of Biomedical Titanium Alloys Coated with Diamond Carbon in Hank's Solution. Journal of Materials Engineering and Performance, 2018, 27, 1635-1641.	1.2	16
25	Electrochemical fabrication of TiO <sub>2</sub> micro-flowers for an efficient intracellular delivery using nanosecond light pulse. Materials Chemistry and Physics, 2021, 267, 124604.	2.0	16
26	Corrosion and Wear Properties of Ti/Tetrahedral Amorphous Carbon Multilayered Coating. Journal of Bio- and Tribo-Corrosion, 2017, 3, 1.	1.2	14
27	Biocompatible response of hydroxyapatite coated on near- $\beta^2$ titanium alloys by E-beam evaporation method. Biocatalysis and Agricultural Biotechnology, 2018, 15, 364-369.	1.5	14
28	Can titanium oxide nanotubes facilitate intracellular delivery by laser-assisted photoporation?. Applied Surface Science, 2021, 543, 148815.	3.1	14
29	In-Vitro Biocompatibility Studies of Plasma-Nitrided Titanium Alloy $\beta^2$ -21S Using Fibroblast Cells. Journal of Materials Engineering and Performance, 2016, 25, 1508-1514.	1.2	13
30	Effect of surface finishing on the formation of nanostructure and corrosion behavior of Ni-Ti alloy. Surface and Interface Analysis, 2017, 49, 450-456.	0.8	12
31	Carbon plasma immersion ion implantation and DLC deposition on Ni-Ti alloy. Materials and Manufacturing Processes, 2018, 33, 1121-1127.	2.7	12
32	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.	1.2	11
33	Corrosion behaviour of tetrahedral amorphous carbon (ta-C) filled titania nano tubes. RSC Advances, 2015, 5, 93131-93138.	1.7	11
34	Effect of oxygen plasma immersion ion implantation on the formation of nanostructures over Ni-Ti alloy. RSC Advances, 2016, 6, 74493-74499.	1.7	10
35	Formation of nanostructures on magnesium alloy by anodization for potential biomedical applications. Materials Today Communications, 2020, 25, 101403.	0.9	10
36	Nanomaterials: An Introduction. Springer Series in Biomaterials Science and Engineering, 2021, , 1-27.	0.7	10

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37	Corrosion, wear, and cell culture studies of oxygen ion implanted Ni-Ti alloy. Surface and Interface Analysis, 2017, 49, 828-836.	0.8	6
38	Mechanoporation: Toward Single Cell Approaches. , 2018, , 1-29.		5
39	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.	1.4	5
40	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.	1.2	4
41	Effect of size and interparticle distance of nanoparticles on the formation of bubbles induced by nanosecond laser. Surfaces and Interfaces, 2022, 30, 101820.	1.5	3
42	Controlled and localized drug delivery using Titania nanotubes. Materials Today Communications, 2022, 32, 103843.	0.9	3
43	Tailoring the Surface Functionalities of Titania Nanotubes for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2021, , 513-552.	0.7	2