Dipankar Choudhury

List of Publications by Year
in descending order

38 papers	1,270 citations	331670 21 h-index	361022 35 g-index
38 all docs	38 docs citations	38 times ranked	1444 citing authors

#	Article	IF	Citations
1	Effects of surface coating on reducing friction and wear of orthopaedic implants. Science and Technology of Advanced Materials, 2014, 15, 014402.	6.1	211
2	Wear Debris Characterization and Corresponding Biological Response: Artificial Hip and Knee Joints. Materials, 2014, 7, 980-1016.	2.9	117
3	Development of tantalum oxide (Ta-O) thin film coating on biomedical Ti-6Al-4V alloy to enhance mechanical properties and biocompatibility. Ceramics International, 2016, 42, 466-480.	4.8	83
4	Improved friction and wear performance of micro dimpled ceramic-on-ceramic interface for hip joint arthroplasty. Ceramics International, 2015, 41, 681-690.	4.8	78
5	Tribological role of synovial fluid compositions on artificial joints - a systematic review of the last 10â€‰years. Lubrication Science, 2014, 26, 387-410.	2.1	64
6	Fabrication and characterization of micro-dimple array on Al2O3 surfaces by using a micro-tooling. Ceramics International, 2014, 40, 2381-2388.	4.8	58
7	3D printed PCU/UHMWPE polymeric blend for artificial knee meniscus. Tribology International, 2018, 122, 1-7.	5.9	56
8	A novel tribological study on DLC-coated micro-dimpled orthopedics implant interface. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 121-131.	3.1	44
9	Tribological performance of the biological components of synovial fluid in artificial joint implants. Science and Technology of Advanced Materials, 2015, 16, 045002.	6.1	39
10	Diamond-like carbon coatings with zirconium-containing interlayers for orthopedic implants. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 51-61.	3.1	39
11	Tribological investigation of diamond-like carbon coated micro-dimpled surface under bovine serum and osteoarthritis oriented synovial fluid. Science and Technology of Advanced Materials, 2015, 16, 035002.	6.1	38
12	The impact of surface and geometry on coefficient of friction of artificial hip joints. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 192-199.	3.1	38
13	Enhanced lubricant film formation through micro-dimpled hard-on-hard artificial hip joint: An in-situ observation of dimple shape effects. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 81, 120-129.	3.1	35
14	Performance of honed surface profiles to artificial hip joints: An experimental investigation. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1847-1853.	2.2	33
15	Improved wear resistance of functional diamond like carbon coated Tiâ€“6Alâ€“4V alloys in an edge loading conditions. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 586-595.	3.1	29
16	Fabrication and characterization of DLC coated microdimples on hip prosthesis heads. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1002-1012.	3.4	26
17	The effects of annealing conditions on the wear of PDA/PTFE coatings. Applied Surface Science, 2019, 481, 723-735.	6.1	26
18	In vivo and in vitro outcomes of alumina, zirconia and their composited ceramic-on-ceramic hip joints. Journal of the Ceramic Society of Japan, 2013, 121, 382-387.	1.1	24

#	Article	IF	Citations
19	Mechanical wear and oxidative degradation analysis of retrieved ultra high molecular weight polyethylene acetabular cups. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 314-323.	3.1	24
20	Tribological performance of polydopamine + Ag nanoparticles/PTFE thin films. Tribology International, 2020, 144, 106097.	5.9	23
21	A novel functional layered diamond like carbon coating for orthopedics applications. Diamond and Related Materials, 2016, 61, 56-69.	3.9	21
22	The Effects of Surface Roughness on the Durability of Polydopamine/PTFE Solid Lubricant Coatings on NiTiNOL 60. Tribology Transactions, 2019, 62, 919-929.	2.0	21
23	â€œBitter Touchâ€: Cross-modal associations between hand-feel touch and gustatory cues in the context of coffee consumption experience. Food Quality and Preference, 2020, 83, 103914.	4.6	21
24	Tribological investigation of ultra-high molecular weight polyethylene against advanced ceramic surfaces in total hip joint replacement. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2015, 229, 410-419.	1.8	17
25	The Effects of PTFE Thickness on the Tribological Behavior of Thick PDA/PTFE Coatings. Tribology Transactions, 2020, 63, 575-584.	2.0	16
26	Lubricating ability of albumin and globulin on artificial joint implants: a tribological perspective. International Journal of Surface Science and Engineering, 2016, 10, 193.	0.4	13
27	Tribological behavior of hydrogenated diamond-like carbon on polished alumina substrate with chromium interlayer for biomedical application. Biotribology, 2016, 7, 1-10.	1.9	12
28	The Influence of Honed Surfaces on Metal-on-Metal Hip Joints. Tribology Online, 2013, 8, 195-202.	0.9	12
29	Nature and Pattern of Cricket Injuries: The Asian Cricket Council Under-19, Elite Cup, 2013. PLoS ONE, 2014, 9, e100028.	2.5	11
30	Tribological performance of PDA/PTFEÂ+ÂGraphite particle coatings on 60NiTi. Applied Surface Science, 2020, 527, 146731.	6.1	11
31	Improved Tribological Performance of Polydopamine/Polytetrafluoroethylene Thin Coatings With Silica Nanoparticles Incorporated into the Polydopamine Underlayer. Journal of Tribology, 2021, 143, .	1.9	7
32	Polydopamine + SiO2 nanoparticle underlayer for improving DLC coating adhesion and durability. Surface and Coatings Technology, 2022, 429, 127964.	4.8	7
33	Analysis of Chemisorbed Tribo-Film for Ceramic-on-Ceramic Hip Joint Prostheses by Raman Spectroscopy. Journal of Functional Biomaterials, 2021, 12, 29.	4.4	5
34	A systematic review on correlation between biochemical and mechanical processes of lubricant film formation in joint replacement of the last 10Âyears. Lubrication Science, 2019, 31, 85-101.	2.1	4
35	Raman analysis of chemisorbed tribofilm for metalâ€onâ€polyethylene hip joint prostheses. Biosurface and Biotribology, 2021, 7, 1-11.	1.5	4
36	The Influence of Surface Modification on Friction and Lubrication Mechanism Under a Bovine Serumâ€“Lubricated Condition. Tribology Transactions, 2016, 59, 316-322.	2.0	2

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37	Improving the Tribological Performances of PDAâ€‰+â€‰PTFE Nanocomposite Coatings by Hot Compaction. Tribology Transactions, 2021, 64, 841-850.	2.0	1
38	Surface Modifications and Tribological Effect in Orthopedics Implants. Advances in Chemical and Materials Engineering Book Series, 2015, , 193-217.	0.3	0