

# Dipankar Choudhury

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Polydopamine + SiO <sub>2</sub> nanoparticle underlayer for improving DLC coating adhesion and durability. Surface and Coatings Technology, 2022, 429, 127964.	4.8	7
2	Raman analysis of chemisorbed tribofilm for metal-on-polyethylene hip joint prostheses. Biosurface and Biotribology, 2021, 7, 1-11.	1.5	4
3	Improved Tribological Performance of Polydopamine/Polytetrafluoroethylene Thin Coatings With Silica Nanoparticles Incorporated into the Polydopamine Underlayer. Journal of Tribology, 2021, 143, .	1.9	7
4	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
5	Improving the Tribological Performances of PDA+PTFE Nanocomposite Coatings by Hot Compaction. Tribology Transactions, 2021, 64, 841-850.	2.0	1
6	Tribological performance of polydopamine + Ag nanoparticles/PTFE thin films. Tribology International, 2020, 144, 106097.	5.9	23
7	Tribological performance of PDA/PTFE+Graphite particle coatings on 60NiTi. Applied Surface Science, 2020, 527, 146731.	6.1	11
8	“Bitter Touch”: 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
9	The Effects of PTFE Thickness on the Tribological Behavior of Thick PDA/PTFE Coatings. Tribology Transactions, 2020, 63, 575-584.	2.0	16
10	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
11	The effects of annealing conditions on the wear of PDA/PTFE coatings. Applied Surface Science, 2019, 481, 723-735.	6.1	26
12	A systematic review on correlation between biochemical and mechanical processes of lubricant film formation in joint replacement of the last 10 years. Lubrication Science, 2019, 31, 85-101.	2.1	4
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	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
15	3D printed PCU/UHMWPE polymeric blend for artificial knee meniscus. Tribology International, 2018, 122, 1-7.	5.9	56
16	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
17	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
18	Improved wear resistance of functional diamond like carbon coated Ti-6Al-4V alloys in an edge loading conditions. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 586-595.	3.1	29

#	ARTICLE	IF	CITATIONS
19	Lubricating ability of albumin and globulin on artificial joint implants: a tribological perspective. <i>International Journal of Surface Science and Engineering</i> , 2016, 10, 193.	0.4	13
20	Tribological behavior of hydrogenated diamond-like carbon on polished alumina substrate with chromium interlayer for biomedical application. <i>Biotribology</i> , 2016, 7, 1-10.	1.9	12
21	A novel functional layered diamond like carbon coating for orthopedics applications. <i>Diamond and Related Materials</i> , 2016, 61, 56-69.	3.9	21
22	The Influence of Surface Modification on Friction and Lubrication Mechanism Under a Bovine Serum Lubricated Condition. <i>Tribology Transactions</i> , 2016, 59, 316-322.	2.0	2
23	Development of tantalum oxide (Ta-O) thin film coating on biomedical Ti-6Al-4V alloy to enhance mechanical properties and biocompatibility. <i>Ceramics International</i> , 2016, 42, 466-480.	4.8	83
24	Fabrication and characterization of DLC coated microdimples on hip prosthesis heads. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1002-1012.	3.4	26
25	Tribological investigation of diamond-like carbon coated micro-dimpled surface under bovine serum and osteoarthritis oriented synovial fluid. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 035002.	6.1	38
26	A novel tribological study on DLC-coated micro-dimpled orthopedics implant interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 45, 121-131.	3.1	44
27	Tribological performance of the biological components of synovial fluid in artificial joint implants. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 045002.	6.1	39
28	Improved friction and wear performance of micro dimpled ceramic-on-ceramic interface for hip joint arthroplasty. <i>Ceramics International</i> , 2015, 41, 681-690.	4.8	78
29	Tribological investigation of ultra-high molecular weight polyethylene against advanced ceramic surfaces in total hip joint replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015, 229, 410-419.	1.8	17
30	Surface Modifications and Tribological Effect in Orthopedics Implants. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2015, , 193-217.	0.3	0
31	Nature and Pattern of Cricket Injuries: The Asian Cricket Council Under-19, Elite Cup, 2013. <i>PLoS ONE</i> , 2014, 9, e100028.	2.5	11
32	Wear Debris Characterization and Corresponding Biological Response: Artificial Hip and Knee Joints. <i>Materials</i> , 2014, 7, 980-1016.	2.9	117
33	Effects of surface coating on reducing friction and wear of orthopaedic implants. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 014402.	6.1	211
34	Fabrication and characterization of micro-dimple array on Al <sub>2</sub> O <sub>3</sub> surfaces by using a micro-tooling. <i>Ceramics International</i> , 2014, 40, 2381-2388.	4.8	58
35	Tribological role of synovial fluid compositions on artificial joints - a systematic review of the last 10 years. <i>Lubrication Science</i> , 2014, 26, 387-410.	2.1	64
36	Performance of honed surface profiles to artificial hip joints: An experimental investigation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1847-1853.	2.2	33

#	ARTICLE	IF	CITATIONS
37	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
38	The Influence of Honed Surfaces on Metal-on-Metal Hip Joints. Tribology Online, 2013, 8, 195-202.	0.9	12