

Pankaj N Dhatrak

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

414
citations

933447

10
h-index

794594

19
g-index

32
all docs

32
docs citations

32
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modification techniques of titanium and titanium alloys for biomedical dental applications: A review. <i>Materials Today: Proceedings</i> , 2021, 39, 84-90.	1.8	77
2	Lean manufacturing a vital tool to enhance productivity in manufacturing. <i>Materials Today: Proceedings</i> , 2021, 46, 729-736.	1.8	49
3	Finite Element Analysis and Experimental Investigations on Stress Distribution of Dental Implants around Implant-Bone Interface. <i>Materials Today: Proceedings</i> , 2018, 5, 5641-5648.	1.8	41
4	A comprehensive study on current and future trends towards the characteristics and enablers of industry 4.0. <i>Journal of Industrial Information Integration</i> , 2022, 27, 100294.	6.4	39
5	Significance of Orthotropic Material Models to Predict Stress Around Bone-Implant Interface Using Numerical Simulation. <i>BioNanoScience</i> , 2019, 9, 652-659.	3.5	28
6	A review article on factors affecting bone loss in dental implants. <i>Materials Today: Proceedings</i> , 2021, 43, 970-976.	1.8	25
7	Current advancements in polymer/polymer matrix composites for dental implants: A systematic review. <i>Materials Today: Proceedings</i> , 2021, 46, 740-745.	1.8	25
8	Dental implant stability and its measurements to improve osseointegration at the bone-implant interface: A review. <i>Materials Today: Proceedings</i> , 2021, 43, 1064-1070.	1.8	24
9	Numerical investigation on stress intensity around Bone-Implant interface by 3-Dimensional FEA and experimental verification by optical technique. <i>Materials Today: Proceedings</i> , 2021, 39, 35-41.	1.8	14
10	Fatigue Life Prediction of Commercial Dental Implant Using Analytical Approach and Verification by FEA. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 203-212.	0.4	11
11	A Mathematical Model for Biomechanical Evaluation of Micro-motion in Dental Prosthetics using Vibroacoustic RFA. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 571-580.	1.8	11
12	A comprehensive review of factors affecting fatigue life of dental implants. <i>Materials Today: Proceedings</i> , 2021, 43, 1117-1123.	1.8	10
13	Influence of cutting flutes on stress distribution for selected dental implants: Numerical studies. <i>Materials Today: Proceedings</i> , 2021, 38, 2680-2686.	1.8	8
14	Polyelectrolyte Complex for Drug Delivery in Biomedical Applications: A Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1183, 012007.	0.6	8
15	Optimization of a knee implant with different biomaterials using finite element analysis. <i>Materials Today: Proceedings</i> , 2022, 59, 459-467.	1.8	7
16	Comparative study on vibration characteristics of aircraft wings using finite element method. <i>Materials Today: Proceedings</i> , 2021, 46, 176-183.	1.8	5
17	A review on artificial bone modelling: Materials and manufacturing techniques. <i>Materials Today: Proceedings</i> , 2021, 39, 114-120.	1.8	4
18	Recent developments and advancements in knee implants materials, manufacturing: A review. <i>Materials Today: Proceedings</i> , 2021, 46, 756-762.	1.8	4

#	ARTICLE	IF	CITATIONS
19	Current Advancements in Cardiovascular Disease Management using Artificial Intelligence and Machine Learning Models: Current Scenario and Challenges. , 2022, , .		4
20	An effect of various parameters on insertion torque to improve the success rate of dental implantation: A review. Materials Today: Proceedings, 2021, 43, 928-934.	1.8	3
21	Design of helical gear with carbon reinforced EN36 steel for two stage constant mesh gearbox weight reduction. Materials Today: Proceedings, 2021, 46, 626-633.	1.8	3
22	An effect of micro-threaded design of implant neck on stress distribution to improve the survival rate of dental implants. AIP Conference Proceedings, 2021, , .	0.4	2
23	Biomaterials used in dental applications to improve success rate of implantation: A review. AIP Conference Proceedings, 2021, , .	0.4	2
24	A review on powertrain subsystems and charging technology in battery electric vehicles: Current and future trends. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 479-496.	1.9	2
25	A review on techniques employed for topology optimization in implant dentistry. AIP Conference Proceedings, 2021, , .	0.4	2
26	Design of experiments (DoE) based optimization of dental implants: A review. AIP Conference Proceedings, 2021, , .	0.4	2
27	Additive manufacturing of bio-implants using functionally graded materials. AIP Conference Proceedings, 2022, , .	0.4	2
28	Biomechanical consideration of bone density and its influence on stress distribution characteristics of dental implants. Materials Today: Proceedings, 2021, 46, 478-483.	1.8	1
29	Dental implant thread profile optimization using Taguchi approach. Materials Today: Proceedings, 2022, 62, 3344-3349.	1.8	1
30	A review on biomechanical factors and prosthetic design parameters on survival rate of short implants. AIP Conference Proceedings, 2021, , .	0.4	0